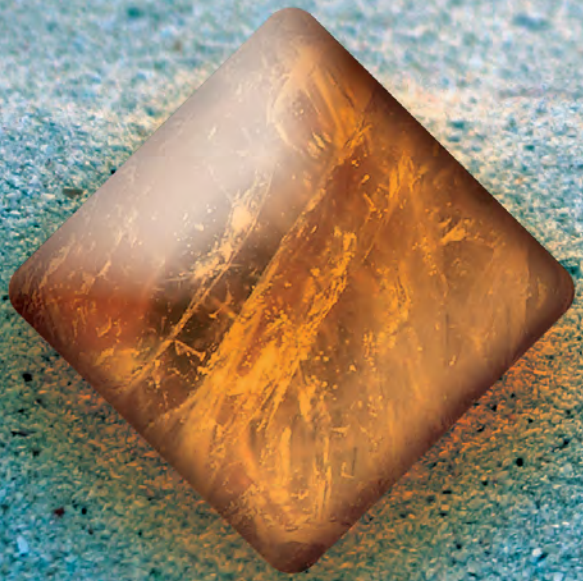
FIXCER

CHEMICAL ADHESIVES AND PRODUCTS
FOR CONSTRUCTION



GENERAL CATALOGUE

Technical Specifications

WARNING:

Although the technical details and recommendations contained in this general catalogue correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation . For this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application. In every case, the user alone is fully responsible for any consequences deriving from the use of the product.

FIXCER

FIXCER

JOINTS

FIXCOLOR 0/4

Coloured cement mortar, for sealing joints of 0 to 4 mm.

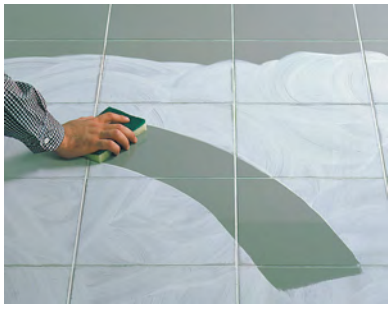
WARNING

FIXCOLOR 0/4 should not be used:

- For seals wider than 4 mm because cracks would appear (use **FIXCOLOR 4/16** or **EUROCOLOR FLEX**).
- For acid-resistant joints (use **CERPOXI** or **PROFESSIONAL PX**).
- For expansion joints (use **SELLALASTIC** or **SILICONA NEUTRA**).
- On mortar supports that are not dry (efflorescence would appear on the surface).
- On joints subject to being cleaned with high-pressure steam (use **FIXCOLOR + LATEFIX**).
- Mixed with waste or salt water (this would make the colours dim).

FIELDS OF APPLICATION

1) Sealant for very narrow joints.
2) Joint sealant between floor tiles and coverings, both INDOORS and for EXTERIORS.
3) Filling joints between tiles, mosaic, ceramics, glass mosaic, extruded stoneware, etc.
4) Filling in joints between natural stone, marble, hydraulic floor tiles, etc.
5) Filling joints in SWIMMING POOLS with traditional chlorination.



TECHNICAL SPECIFICATIONS

FIXCOLOR is mortar based on cement, finely granulated aggregates and special additives, that hardens without cracking. The pigments that give it colour give the joint a decorative, long-lasting effect. Its **unique** characteristics differentiate it, thanks to its:

- Great adhesion.
- Great watertightness.
- Excellent workability with a rubber trowel.
- Great mechanical resistance.

HOW TO USE

- **Preparation of the joints:**
  After applying **FIXCOLOR**; clean all the joints. The aim is to have all the seals resistant, solid, free from dust, paint, wax, oil, grease, etc.
  When the installation has been done with fast drying glue cement you can proceed to grout after 4 hours; and if the installation has been done with normal drying glue cement, the grouting can be done after 24 hours.
  In very absorbent, dry joints or ones exposed to the sun in warm periods, previously damp them, bearing in mind that too much damp or a temperature range outside +5 °C to +35 °C **does not** guarantee **either** a good consistency **or** a regular installation.

- **Preparation of the mixture:**
  Mix approximately 6.0 litres of clean water with every 25 kg of **FIXCOLOR 0/4**, until it is evenly mixed; use an electric mixer at low revolutions.; leave to stand for about 5 minutes: remix and the mass will be ready to use.

- **Application of the mixture:**
  Fill in the joints completely, with the help of a rubber spatula (**FIX-ESPÁTULA**), exerting enough pressure to fill in all the existing cavities, and gradually removing all the excesses with the same spatula. MAXIMUM FIFTEEN MINUTES AFTER ITS APPLICATION you can proceed with the surface finish of the joint and cleaning the tiles with the help of a slightly damp sponge.

There are rotating machines for large surface areas on the market specially for installing and cleaning more quickly. (Please consult)

◆ **Warning:**
To grout terracotta or floor tiles with absorbent surfaces, we recommend applying an initial **protective** layer of **FIX-OIL to close** the pores and thus make cleaning easier.
If there are small remains of grouting on rough tiles, you can do a final cleaning seven days after grouting, using cleaning acids such as **GRESNET**, suitably diluted with 1:10 water.

CONSUMPTION:

Size (mm.)	Thickness (mm.)	Joint (mm.)	Performance (Kg/m^2)
25x25	4	2	1.1
50x50	4	2	0.6
100x100	6	2	0.4
150x150	6	3	0.4
150x220	6	3	0.3
200x200	8	4	0.5

TECHNICAL DATA

DIRECTIVES	EN-13.888
PRODUCT	
• Type:	CG2 W A Material for cementitious grouting enhanced with additional characteristics: high resistance to abrasion and reduced water absorption
• Density in powder:	1.2 g/cm^3
• Toxicity:	irritant, avoid contact with skin and eyes
APPLICATION	
• Start the grouting if you have used:	
- fast glue cement:	after 4 hours.
- normal glue cement:	after 24 hours.
• Mixing water:	approx. 6.0 litres per 25-kg sack.
• Density of the mixture:	2.0 g/cm^3
• Temperature of application:	+ 5 °C to + 35 °C
• Useful life:	1 hour
• Starting cleaning:	after 30 minutes a +20 °C
• Can be walked on after:	24 hours
• Final hardening:	7 days
PERFORMANCE PROPERTIES	
• Resistance to damp:	excellent
• Resistance to ageing:	excellent
• Resistance to solvents:	excellent
• Resistance to acids/alkalis:	poor
• Resistance to abrasion:	$\leq$ 1000 mm^3
• Resistance to flexion after dry storing:	$\geq$ 2.5 N/mm^2
• Resistance to flexion after freezing-thawing cycles:	$\geq$ 2.5 N/mm^2
• Resistance to compression after dry storing:	$\geq$ 15 N/mm^2
• Resistance to compression after freezing-thawing cycles:	$\geq$ 15 N/mm^2
• Retraction:	$\leq$ 3 mm/m
• Water absorption after 30 minutes:	$\leq$ 2 g
• Water absorption after 240 minutes:	$\leq$ 5 g
STORING	
• In covered, ventilated places, stored in their original containers, well closed, for:	12 months (25 kgs bags) 24 months (5 kgs bags)
PRESENTATION AND COLOURS	
• Supplied in:	In White, Beige, Pale Grey, Cement Grey and Anthracite.

FIXCOLOR 4/16

Coloured cement mortar, for sealing joints of 4 to 16 mm.

WARNING

FIXCOLOR 4/16 should not be used:

- On narrow joints (use **FIXCOLOR 0/4** or **EUROCOLOR FLEX**).
- For acid-resistant joints (use **CERPOXI** or **PROFESSIONAL PX**).
- For expansion joints (use **SELLALASTIC** or **SILICONA NEUTRA**).
- On mortar supports that are not dry (efflorescence would appear on the surface).
- On joints subject to being cleaned with high-pressure steam (use **FIXCOLOR + LATEFIX**).
- Mixed with waste or salt water (this would make the colours dim).

FIELDS OF APPLICATION

- Joint sealant between floor tiles and coverings, both INDOORS and for EXTERIORS.
- Filling joints between tiles, mosaic, ceramics, glass mosaic, extruded stoneware, etc.
- Filling in joints between natural stone, marble, hydraulic floor tiles, etc.
- Filling joints in SWIMMING POOLS with traditional chlorination.

TECHNICAL SPECIFICATIONS

FIXCOLOR is mortar based on cement, finely granulated aggregates and special additives, that hardens without cracking. The pigments that give it colour give the joint a decorative, long-lasting effect. Its **unique** characteristics differentiate it, thanks to its:

- Great adhesion.
- Great watertightness.
- Excellent workability with a rubber trowel.
- Great mechanical resistance.

HOW TO USE

- **Preparation of the joints:**

  After applying **FIXCOLOR 4/16**; clean all the joints. The aim is to have all the seals resistant, solid, free from dust, paint, wax, oil, grease, etc.

  When the installation has been done with fast drying glue cement you can proceed to grout after 4 hours; and if the installation has been done with normal drying glue cement, the grouting can be done after 24 hours.

In very absorbent, dry joints or ones exposed to the sun in warm periods, previously damp them, bearing in mind that too much damp or a temperature range outside +5 °C to +35 °C does not guarantee either a good consistency or a regular installation.

◆ **Preparation of the mixture:**

Mix approximately 5.5 litres of clean water with every 25 kg of **FIXCOLOR 4/16**, until it is evenly mixed; use an electric mixer at low revolutions.; leave to stand for about 2 minutes: remix and the mass will be ready to use.

◆ **Application of the mixture:**

Fill in the joints completely, with the help of a rubber spatula (**FIX-ESPÁTULA**), exerting enough pressure to fill in all the existing cavities, and gradually removing all the excesses with the same spatula. MAXIMUM FIFTEEN MINUTES AFTER ITS APPLICATION you can proceed with the surface finish of the joint and cleaning the tiles with the help of a slightly damp sponge.

There are rotating machines for large surface areas on the market specially for installing and cleaning more quickly. (Please consult)

◆ **Warning:**

To grout terracotta or floor tiles with absorbent surfaces, we recommend applying an initial **protective** layer of **FIX-OIL to close** the pores and thus make cleaning easier. If there are small remains of grouting on rough tiles, you can do a final cleaning seven days after grouting, using cleaning acids such as **GRESNET**, suitably diluted with 1:10 water.

CONSUMPTION:

Size (mm.)	Thickness (mm.)	Joint (mm.)	Performance (Kg/m^2)
100 x 200	8	4	0.96
120 x 240	12	8	2.40
200 x 200	8	6	0.96
200 x 400	10	15	2.25
250 x 250	12	10	1.92
250 x 250	10	20	3.20
300 x 300	8	6	0.64
330 x 330	15	20	3.64

TECHNICAL DATA

DIRECTIVES	EN-13.888
PRODUCT	
• Type:	CG2 W A Material for cementitious grouting enhanced with additional characteristics: high resistance to abrasion and reduced water absorption
• Density in powder:	1.4 g/cm^3
• Toxicity:	irritant, avoid contact with skin and eyes
APPLICATION	
• Start the grouting if you have used:	
- fast glue cement:	after 4 hours.
- normal glue cement:	after 24 hours.
• Mixing water:	approx. 5.5 litres per 25-kg sack.
• Density of the mixture:	1.6 g/cm^3
• Temperature of application:	+ 5 °C to + 35 °C
• Useful life:	1 hour
• Starting cleaning:	after 30 minutes a +20 °C
• Can be walked on after:	24 hours
• Final hardening:	7 days
PERFORMANCE PROPERTIES	
• Resistance to damp:	excellent
• Resistance to ageing.	excellent
• Resistance to solvents:	excellent
• Resistance to acids/alkalis:	poor
• Resistance to abrasion.	$\leq$ 1000 mm^3
• Resistance to flexion after dry storing:	$\geq$ 2.5 N/mm^2
• Resistance to flexion after freezing-thawing cycles:	$\geq$ 2.5 N/mm^2
• Resistance to compression after dry storing:	$\geq$ 15 N/mm^2
• Resistance to compression after freezing-thawing cycles:	$\geq$ 15 N/mm^2
• Retraction:	$\leq$ 3 mm/m
• Water absorption after 30 minutes:	$\leq$ 2 g
• Water absorption after 240 minutes:	$\leq$ 5 g
STORING	
• In covered, ventilated places, stored in their original containers, well closed, for:	12 months (25 Kgs bags)
PRESENTATION AND COLOURS	
• Supplied in:	In Pale Grey and Cement Grey.

EUROCOLOR FLEX

Mortar for sealing joints of 0 to 16 mm thickness resistant to chemical aggression. Fungicide. Water repellent. No efflorescence. Bright, permanent colours. Ideal for SWIMMING POOLS with traditional chlorination.

WARNING

EUROCOLOR FLEX should not be used:

- Adding more water than indicated in the instructions.
- For seals that need to be resistant to acids (Use **CERPOXI** or **PROFESSIONAL PX**).
- For expansion joints (Use **SELLALASTIC** or **SILICONA NEUTRA**).
- Mixed with waste or salt water (this would make the colours dim).

FIELDS OF APPLICATION

- Joint sealant between floor tiles and coverings, both INDOORS and for EXTERIORS.
- Filling joints between tiles, mosaic, ceramics, glass mosaic, extruded stoneware, etc.
- Filling joints between bricks, natural stone, marble, hydraulic tiles, terracotta, stoneware, etc.
- Filling joints in SWIMMING POOLS with traditional chlorination.

TECHNICAL SPECIFICATIONS

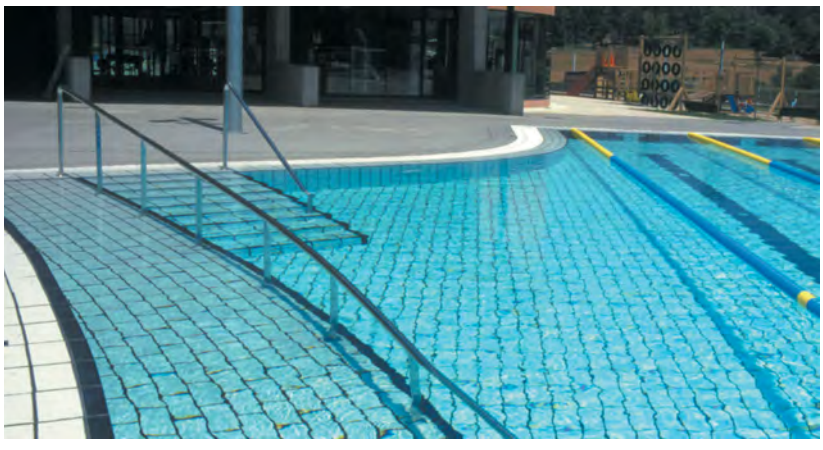
EUROCOLOR FLEX is a mortar made with cement, aggregates of a certain granulometry, synthetic polymers and waterproofing additives. It hardens without cracking, WITHOUT efflorescence, with great resistance and achieving bright colours.

Its **UNIQUE** characteristics differentiate it, thanks to its:

- Excellent workability with a rubber trowel.
- Easy application, cleaning and maintenance.
- Fast setting.
- Fine finish and bright colours without efflorescence.
- Great mechanical resistance, adhesion and watertightness.
- Not retracting.
- Its margin of application enables us to have A UNIQUE STOCK.
- Optimum chemical resistance to: detergents, alkalis and or weak acids ($3<pH<14$) in situations of occasional, non-continuous exposure.

HOW TO USE

- **Preparation of the joints:**
  Before applying **EUROCOLOR FLEX**, clean all the joints. The aim is to have all the joints resistant, solid, free from dust, paint, wax, oil, grease, etc.
  When the installation has been done with fast glue cement proceed to grout after 4 hours; and if the installation has been done with normal drying glue cement, the grouting can be done after 24 hours.
  In very absorbent, dry joints or ones expo-



sed to the sun in warm periods, damp them previously, bearing in mind that too much damp or a temperature range outside +5 °C +35 °C does not guarantee either a good consistency or a regular installation.

- **Preparation of the mixture:**
  Mix with approximately 5.25 litres of water for every 25 kg of **Eurocolor Flex**, until it is evenly distributed; use an electric mixer at low revolutions; leave to stand for 2 minutes; remix and the mass will be ready to use.

- **Application of the mixture:**
  Fill in the joints completely, with the help of a rubber spatula (**FIX-ESPÁTULA**), exerting enough pressure to fill in all the existing cavities, and gradually removing all the excesses with the same spatula. MAXIMUM FIFTEEN MINUTES AFTER ITS APPLICATION you can proceed with the surface finish of the joint and cleaning the tiles with the help of a slightly damp sponge.
  For large areas, there are rotating machines on the market, with special disks for installing and cleaning faster (please consult the Technical Department).

- **Warning:**
  To grout terracotta or floor tiles with absorbent surfaces, we recommend applying an initial protective layer of **FIX-OIL** to close the pores and thus make cleaning easier. If remains of the product are left, on rough style tiles, do a final cleaning 7 days after grouting, using cleaning oils such as **GRESNET**, suitably diluted 1:10.

CONSUMABLE PRODUCTS:

Size (mm.)	Thickness (mm.)	Joint (mm.)	Performance (Kg/m^2)
100x200	8	4	0.96
120x240	12	8	2.40
200x200	8	6	0.96
200x400	10	15	2.25
250x250	12	10	1.92
250x250	10	20	3.2
300x300	8	6	0.64
330x330	15	20	3.64

TECHNICAL DATA

DIRECTIVES EN-13.888

PRODUCT

• Type:	CG2 W A cement based grouting material with additional characteristics: high resistance to abrasion and reduced water absorption
• Density in powder:	1.2 g/cm^3
• Toxicity:	irritant, avoid contact with skin and eyes

APPLICATION

• Start the grouting if you have used:	
- fast glue cement:	after 4 hours.
- normal glue cement:	after 24 hours.
• Mixing water:	approx. 5.25 litres per 25-kg sack.
• Density of the mixture:	1.8 g/cm^3
• Temperature of application:	+ 5 °C to + 35 °C
• Useful life:	1 hour
• Start cleaning:	after 30 minutes at +20 °C
• Can be walked on after:	24 hours
• Final hardening:	7 days

PERFORMANCE PROPERTIES

• Resistance to damp:	excellent
• Resistance to ageing:	excellent
• Resistance to solvents:	excellent
• Resistance to acids/alkalis:	poor
• Resistance to temperature:	excellent between -50°C and +250°C
• Resistance to abrasion:	$\leq$ 1000 mm^3
• Resistance to flexion after dry storing:	$\geq$ 2.5 N/mm^2
• Resistance to flexion after freezing-thawing cycles:	$\geq$ 2.5 N/mm^2
• Resistance to compression after dry storing:	$\geq$ 15 N/mm^2
• Resistance to compression after freezing-thawing cycles:	$\geq$15 N/mm^2
• Retraction:	$\leq$ 3 mm/m
• Water absorption after 30 minutes:	$\leq$ 2 g
• Water absorption after 240 minutes:	$\leq$ 5 g

STORING

• In covered, ventilated places, stored in their original containers, well closed, for:	12 months(25 kgs bags); 24 months(5 kgs bags)

PRESENTATION AND COLOURS

• Supplied in:	8 colours

IDEAL COLOR

HIGH-TECH mortar for sealing joints from 0 to 6 mm. Water repellent. Fungicide. Without fissures. Resist wear. Colors without stains or efflorescence.

WARNING

IDEAL COLOR should not be used:

- Adding more water than indicated in the instructions.
- For seals that need to be resistant to acids (Use **CERPOXI** or **PROFESSIONAL PX**).
- For expansion joints (Use **SELLALASTIC** or **SILICONA NEUTRA**).
- Mixed with waste or salt water (this would make the colours dim).
- Mixed with cement, plaster or lime.
- When permanent chemical resistance is required below pH 3.

FIELDS OF APPLICATION

- Joint sealant between floor tiles and coverings, both INDOORS and for EXTERIORS.
- Filling joints between tiles, mosaic, ceramics, white-body earthenware tiles, glass mosaic, extruded stoneware, porcelain stoneware, bricks, natural stone, marbles, terrazzo, terracotta,...
- Filling of joints subjected to wear: hospitals, restaurants, changing rooms, airports, shops, offices, ...
- Filling joints in SWIMMING POOLS with traditional chlorination, bathrooms, showers, hot water areas, spa, whirlpools, thermal pools, etc.

TECHNICAL SPECIFICATIONS

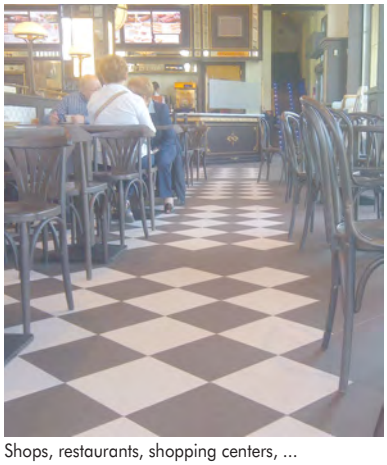
IDEAL COLOR is a health-friendly mortar made with special hydraulic aggregates, arids of a certain granulometry, synthetic polymers and waterproofing additives. It hardens without cracking, without efflorescence (without $Ca(OH)_2$), and achieving great resistance and uniform colours without stains.

Its **UNIQUE** characteristics differentiate it, thanks to its:

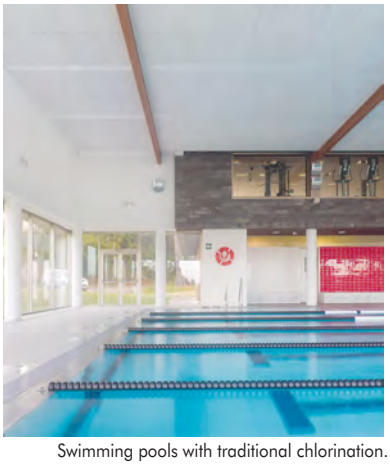
- Easy application, cleaning and maintenance.
- Fast setting.
- Fine finish and uniform colours without stains or efflorescence.
- Great mechanical resistance, adhesion and watertightness.
- Not retracting.
- Optimum chemical resistance to: detergents, alkalis and or weak acids ($3<pH<14$) in situations of occasional, non-continuous exposure.

HOW TO USE

- **Preparation of the joints:**
  The premise is to have resistant joints, empty at least 2/3 of their thickness, solid, clean, free of dust, paint, waxes, oils, ...
  When the installation has been done with fast or with normal drying glue, the grouting can be done after:
  On floors: at 4 or 24 hours respectively
  On walls: at 4 or 8 hours respectively.



Shops, restaurants, shopping centers, ...



Swimming pools with traditional chlorination.

In very absorbent, dry joints or ones exposed to the sun in warm periods, damp them previously, bearing in mind that too much damp or a temperature range outside +5 °C +35 °C does not guarantee either a good consistency or a regular installation.

◆ **Preparation of the mixture:**
Mix approximately 5.5 litres of water for every 25 kg or 1.1 litres of water for every 5 kg of **IDEAL COLOR** until it is evenly distributed; use an electric mixer at low revolutions; leave to stand for 2 minutes; remix and the mass will be ready to use.

◆ **Application of the mixture:**
Fill in the joints completely, with the help of the rubber spatula **FIX-ESPÁTULA**, exerting enough pressure to fill in all the existing cavities, and gradually removing all the excesses with the same spatula. When the joint surface becomes opaque, which usually takes place after 15-30 minutes, you can proceed with the surface finish of the joint and cleaning the tiles with the help of a slightly damp sponge. In cases where the joint has inadvertently begun to harden, it is possible to finish the surface using the **FIX-LLANA PARA LIMPIAR** and then a damp sponge.
Final cleaning of the powdery film from the surface may be carried out with a clean, dry cloth.

◆ **Warning:**
To grout terracotta or floor tiles with absorbent surfaces, we recommend applying an initial protective layer of **FIX-OIL** to close the pores and thus make cleaning easier. If remains of the product are left, on rough style tiles, do a final cleaning 7 days after grouting, using cleaning oils such as **GRES-NET**, suitably diluted 1:10.

Grouting of mosaic and ceramic tiles in areas subject to intense physical-mechanical wear.

CONSUMABLE PRODUCTS:

Size (mm.)	Thickness (mm.)	Joint (mm.)	Performance (Kg/m^2)
23x23	5	2	1.40
310x310	9	2	0.19
310x626	9	2	0.14
488x488	10	2	0.13
488x979	10	2	0.10
310x310	9	6	0.56
310x626	9	6	0.42
1200x3600	3	2	0.01

TECHNICAL DATA

DIRECTIVES EN-13.888

PRODUCT

- Type: CG2 W A
  grouting material with additional characteristics: high resistance to abrasion and reduced water absorption
- Density in powder: 1.3 g/cm^3
- Toxicity: not irritanting but avoid contact with eyes

APPLICATION

- Start the grouting if you have used (walls/floors):
  - fast glue cement: after 4 hours. / after 4 hours
  - normal glue cement: after 8 hours. / after 24 hours
- Mixing water: approx. 22-25%
- Density of the mixture: 1.8 g/cm^3
- Temperature of application: + 5 °C to + 35 °C
- Useful life: 1 hour
- Start cleaning: after 15-30 minutes
- Set to light foot traffic: 3 hours
- Ready for use: 24 hours (48 hours for swimming pools)

PERFORMANCE PROPERTIES

- Resistance to damp: excellent
- Resistance to ageing: excellent
- Resistance to solvents: excellent
- Resistance to acids: poor
- Resistance to temperature: excellent between -50°C and +250°C
- Resistance to abrasion: $\leq$ 1000 mm^3
- Resistance to flexion after dry storing: $\geq$ 2.5 N/mm^2
- Resistance to flexion after freezing-thawing cycles: $\geq$ 2.5 N/mm^2
- Resistance to compression after dry storing: $\geq$ 15 N/mm^2
- Resistance to compression after freezing-thawing cycles: $\geq$15 N/mm^2
- Retraction: $\leq$ 3 mm/m
- Water absorption after 30 minutes: $\leq$ 2 g
- Water absorption after 240 minutes: $\leq$ 5 g

STORING

- In covered, ventilated places, stored in their original containers, well closed, for: 12 months(25 kgs bags); 24 months(5 kgs bags)

PRESENTATION AND COLOURS

- Supplied in: 34 colours

CERPOXI

Mortar for sealing acid-resistant joints from 0 to 10 mm. LOW VISCOSITY. EASY APPLICATION.

FIELDS OF APPLICATION

Grouting:

- Grouting vertical and horizontal joints between tiles in INTERIORS and EXTERIORS.
- Filling anti-acid tile joints for the following **industries**: chemical, dairy, food, galvanising, paper, cheese, beer, slaughterhouse, canning factories and tanneries etc.
- Filling joints in **kitchens**, bathrooms, cutting rooms.
- Filling joints in chlorinated or salt water chlorinated public **swimming pools**, showers, water areas etc.

Installing:

- Installing tiles in general and ceramic anti-acid tiles in coverings and surfaces where a rapid, **anti- acid hardening** is required.
- Installing marble pieces in thresholds, lintels, kitchen sinks etc.

TECHNICAL CHARACTERISTICS:

CERPOXI is a three-component compound made using selected sand, stable pigments and special additives which harden through a simple chemical reaction, resulting in an exceptional product for:

- The best value on the market.
- Optimal chemical resistance to detergents, corrosive acids, etc.
- Excellent adherence to supports such as ceramics, concrete, steel, wood, cement asbestos
- High mechanical resistance.
- Excellent fluidity: it is an easy-to-apply epoxy.
- Totally impermeable: 100%.
- Resistance to ageing and blemishes.
- When applied on vertical joints it does not drop.
- Easier maintenance than with cement-based joints.
- It has an extraordinarily long pot-life with a rapid hardening time.

WARNING

- **CERPOXI** is not an expansion joint (use **SELLALASTIC, SELLAFIX** or **SILICONA NEUTRA**).
- Do not use the grouting material on wet, dirty or dusty tiles.
- Take special care cleaning when grouting non-glazed materials.
- Do not make half and half mixes. Mix the total quantity of the three components.
- Do not add any other component to the **CERPOXI** which could modify its characteristics.

HOW TO USE

- **Preparation of the joints:**
  Clean all the joints before applying **CERPOXI**. The aim is to have resistant, solid joints, free from dust, paint, wax, oil or grease etc.
- **Preparation of the components:**
  The ideal application temperature is +20 °C. When the temperature is very low and the liquids are cold and viscous, submerge the bottles in hot water (not boiling) until they become liquid.
- **Preparation of the mixture:**
  1) A kit is made up of:
     1 large bottle of liquid
     1 small bottle of liquid
     1 bottle of powder
  2) Empty the entire content of **the two bottles** into a bucket.
  3) Add the powder into the liquids.
  4) Mix using a spiral mechanical mixer drill attachment at high revolutions.
- **Application of the mixture:**
  Manual grouting on: coverings and surfaces
  - fill the joints with a rubber **FIX-ESPATULA**.
  - mark the joints diagonally.
  - collect the excess with the edge of the same spatula.

- **Cleaning:** eliminate remains **immediately**.
- use the **FIX-ESTROPAJO**, a trowel with handle included with a white fibre Scotch-Brite scourer with 1 cm thickness.
- using cold water is sufficient although the process is easier if the water is warm.
- liquid remains should be mopped up with the **FIX-ESPONJA**, a trowel with handle included with a special sponge. Easy sponge rinsing can be carried out using the **FIX-BUCKET**.
- The final cleaning can be carried out the next day with water, soap and the **FIX-ESTROPAJO**.

Industrial grouting on: **Large areas**

- fill the joints with a rotating machine fitted with **hard rubber rods.**
- re-distribute the remains with the **FIX-ESPATULA** or with a hard rubber rake.
- **Cleaning:** eliminate remains **immediately**.
- use the same rotating machine now fitted with white felt (Scotch-Brite type) of 2 cm, and a small amount of cold water (the process is simpler with warm water).
- Clean up excess liquid with the **FIX-ESPONJA** and the **FIX-BUCKET** or simply drag it to the nearest drain with a hard rubber rake.
- The final cleaning can be carried out the following day using water, soap and the **FIX- ESTROPAJO**.

CLEANING TOOLS

Clean tools with water or **EPOXINET** before the **CERPOX**I hardens.

CONSUMPTION:

Size of tile (mm.)	Thickness of the tile (mm.)	Joint width (mm.)	Performance (Kg/m^2)
25 x25	5	2	1.0
100 x100	6	4	0.8
120 x240	10	8	1.6
100 x200	10	6	1.5
150 x300	12	10	1.9

TECHNICAL DATA

DIRECTIVES EN 13.888

PRODUCT

- Type: RG
  Grouting material for reactive resins
- Aspect part "A" and "B": Fluid liquids
- Aspect part "C": Powder
- % of solids: 100%
- Inflammable: No
- Toxicity Contact with skin and eyes must be avoided. Always use gloves during installation, protective goggles are also recommended. In the case of skin contact, wash with plenty of soap and water. In case of eye contact wash with plenty of running water and consult a doctor.

APPLICATION

- Start the grouting if you have used:
  - fast cement glue: after 4 hours.
  - normal cement glue: after 24 hours.
- Density of mixture: 1.5 g/cm^3
- Temperature of application: from +12 °C to +30 °C (ideal +20 °C)
- Useful life: 1 hour (at +20 °C)
- Starting cleaning: 0 - 10 minutes
- Can be walked on: 14 hours (at +20 °C)
- Final hardening: 7 days (at +20 °C)

PERFORMANCE PROPERTIES

- Resistance to damp: excellent
- Resistance to ageing: excellent
- Resistance to acids/alkalis: excellent
- Resistance to solvents: very good
- Resistance to abrasion: $\leq$ 250 mm^3
- Resistance to flexion after dry storing: $\geq$ 30 N/mm^2
- Resistance to compression after dry storing: $\geq$ 45 N/mm^2
- Retraction: $\leq$ 1.5 mm/m
- Water absorption after 240 min: $\leq$ 0.1 g
- Range of working temperatures: from -20°C to +50°C

STORAGE

- In a covered area, protected from heat and freezing temperatures, kept in its original containers: 2 years

PRESENTATION AND COLOURS

- Supplied in 25 colors in: 7-kg pots.
  21-kg pots. (3 units of 7Kg.)
- Supplied in White color in: 7.5-kg pots.
  22.5-kg. pots (three units of 7.5 kg.)

CERPOXI RAPID

Mortar for sealing acid-resistant joints from 0 to 10 mm. LOW VISCOSITY. EASY APPLICATION and VERY FAST DRYING.

WARNING

- **CERPOXI RAPID** is not an expansion joint (use **SELLALASTIC, SELLAFIX** or **SILICONA NEUTRA**).
- Do not use the grouting material on wet, dirty or dusty tiles.
- Take special care cleaning when grouting non-glazed materials.
- Do not make half and half mixes. Mix the total quantity of the three components.
- Do not add any other component to the **CERPOXI RAPID** which could modify its characteristics.

FIELDS OF APPLICATION

Grouting:

- Grouting vertical and horizontal joints between tiles in INTERIORS and EXTERIORS.
- Filling anti-acid tile joints for the following **industries**: chemical, dairy, food, galvanising, paper, cheese, beer, slaughterhouse, canning factories and tanneries etc.
- Filling joints in **kitchens**, bathrooms, cutting rooms.
- Filling joints in traditional-chlorinated or salt-water-chlorinated public **swimming pools**, showers, water areas etc.

Installing:

- Installing tiles in general and ceramic anti-acid tiles in coverings and surfaces where a **rapid** and **anti-acid hardening** is required.
- Installing marble pieces in thresholds, lintels, kitchen sinks etc.

TECHNICAL CHARACTERISTICS:

CERPOXI RAPID is a three-component compound made using selected sand, stable pigments and special additives which harden through a simple chemical reaction, resulting in an exceptional product for:

- It does in 5 hours what the traditional **CERPOXI** does in 24 hours.
- The best value on the market.
- Optimal chemical resistance to detergents, corrosive acids, etc.
- Excellent adherence to supports such as ceramics, concrete, steel, wood, cement asbestos
- High mechanical resistance.
- Excellent fluidity: it is an easy-to-apply epoxy.
- Totally impermeable: 100%.
- Resistance to ageing and blemishes.
- When applied on vertical joints it does not drop.
- Easier maintenance than with cement-based joints.

HOW TO USE

- **Preparation of the joints:**
  Clean all the joints before applying **CERPOXI RAPID**. The aim is to have resistant, solid joints, free from dust, paint, wax, oil or grease etc.
- **Preparation of the components:**
  The ideal application temperature is +20 °C. When the temperature is very low we recommend using PROFESSIONAL PX COLD..
- **Preparation of the mixture:**
  1) A kit is made up of:
     1 large bottle of liquid
     1 small bottle of liquid
     1 bottle of powder
  2) Empty the entire content of **the two bottles** into a bucket.
  3) Add the powder into the liquids.
  4) Mix using a spiral mechanical mixer drill attachment at high revolutions.
- **Application of the mixture:**
  Manual grouting on: coverings and surfaces
  - fill the joints with a rubber **FIX-ESPATULA**.
  - mark the joints diagonally.
  - collect the excess with the edge of the same spatula.

- **Cleaning:** eliminate remains **immediately**.
- use the **FIX-ESTROPAJO**, a trowel with handle included with a white fibre Scotch-Brite scourer with 1 cm thickness.
- using cold water is sufficient although the process is easier if the water is warm.
- liquid remains should be mopped up with the **FIX-ESPONJA**, a trowel with handle included with a special sponge. Easy sponge rinsing can be carried out using the **FIX-BUCKET**.
- The final cleaning can be carried out the next day with water, soap and the **FIX-ESTROPAJO**.

Industrial grouting:

on large surfaces **PROFESSIONAL PX COLD** is too fast to be able to use with rotary machine. We recommend grouting manually with the **FIX-ESPATULA BLUE RUBBER.**

CLEANING TOOLS

Clean tools with water or **EPOXINET** before the **CERPOXI RAPID** hardens.

CONSUMPTION:

Size of tile (mm.)	Thickness of the tile (mm.)	Joint width (mm.)	Performance (Kg/m^2)
25 x25	5	2	1.0
100 x100	6	4	0.8
120 x240	10	8	1.6
100 x200	10	6	1.5
150 x300	12	10	1.9

TECHNICAL DATA

DIRECTIVES EN 13.888

PRODUCT

- Type: RG
  Grouting material for reactive resins
- Aspect part "A" and "B": Fluid liquids
- Aspect part "C": Powder
- % of solids: 100%
- Inflammable: No
- Toxicity Contact with skin and eyes must be avoided. Always use gloves during installation, protective goggles are also recommended. In the case of skin contact, wash with plenty of soap and water. In case of eye contact wash with plenty of running water and consult a doctor.

APPLICATION

- Start the grouting if you have used:
  - fast cement glue: after 4 hours.
  - normal cement glue: after 24 hours.
- Density of mixture: 1.5 g/cm^3
- Temperature of application: from +12°C to +30°C (ideal +20°C)
- Useful life: 15-20 minutes (at +20°C)
- Starting cleaning: 0 - 10 minutes
- Can be walked on: 1 hour (at +20°C)
- Final hardening: 5 hours (at +20°C)

PERFORMANCE PROPERTIES

- Resistance to damp: excellent
- Resistance to ageing: excellent
- Resistance to acids/alkalis: excellent
- Resistance to solvents: very good
- Resistance to abrasion: $\leq$ 250 mm^3
- Resistance to flexion after dry storing: $\geq$ 30 N/mm^2
- Resistance to compression after dry storing: $\geq$ 45 N/mm^2
- Retraction: $\leq$ 1.5 mm/m
- Water absorption after 240 min: $\leq$ 0.1 g
- Range of working temperatures: from -20°C to +50°C

STORAGE

- In a covered area, protected from heat and freezing temperatures, kept in its original containers: 2 years

PRESENTATION AND COLOURS

- Supplied in : 2-kg pots.

CERPOXI FLUID

ULTRA-FLUID mortar for sealing acid-resistant joints, from 0 to 2mm. IDEAL TO APPLY WITH INDUSTRIAL MACHINE.

FIELDS OF APPLICATION

Pavement grouting:

- Grouting horizontal joints between tiles in INTERIORS and EXTERIORS.
- Filling anti-acid tile joints for the following **industries**: chemical, dairy, food, galvanising, paper, cheese, beer, slaughterhouse, canning factories and tanneries etc.
- Filling joints in **kitchens**, bathrooms, cutting rooms.
- Filling joints in **swimming pools**, showers, water areas etc.

Pavement placements:

- Installing tiles in general and ceramic anti-acid tiles where a rapid, **anti- acid hardening** is required.

TECHNICAL CHARACTERISTICS:

CERPOXI FLUID is a three-component compound made using selected sand, stable pigments and special additives which harden through a simple chemical reaction, resulting in an exceptional product for:

- It is the most fluid epoxy on the market, ideal for grouting joints widths of a maximum of 2mm.
- Optimal chemical resistance to detergents, corrosive acids, etc.
- Excellent adherence to supports such as ceramics, concrete, steel, wood, cement asbestos
- High mechanical resistance.
- Totally impermeable: 100%.
- Resistance to ageing and blemishes.
- Easier maintenance than with cement-based joints.
- It has an extraordinarily long pot-life with a rapid hardening time.

WARNING

- **CERPOXI FLUID** is not an expansion joint (use **SELLALASTIC, SELLAFIX** or **SILICONA NEUTRA**).
- Do not use the grouting material on wet, dirty or dusty tiles.
- Do not apply to vertical joints or to joints with a width greater than 2mm.
- Do not make half and half mixes. Mix the total quantity of the three components.
- Do not add any other component to the **CERPOXI FLUID** which could modify its characteristics.

HOW TO USE

- **Preparation of the joints:**
  Clean all the joints before applying **CERPOXI FLUID**. The aim is to have resistant, solid joints, free from dust, paint, wax, oil or grease etc.
- **Preparation of the components:**
  The ideal application temperature is +20 °C. When the temperature is very low and the liquids are cold and viscous, submerge the bottles in hot water (not boiling) until they become liquid.
- **Preparation of the mixture:**
  1) A kit is made up of:
     1 large bottle of liquid
     1 small bottle of liquid
     1 bottle of powder
  2) Empty the entire content of **the two bottles** into a bucket.
  3) Add the powder into the liquids.
  4) Mix using a spiral mechanical mixer drill attachment at high revolutions.
- **Application of the mixture:**
  Manual grouting on: pavements
  - fill the joints with a rubber **FIX-ESPATULA**.
  - mark the joints diagonally.
  - collect the excess with the edge of the same spatula.

- **Cleaning:** eliminate remains **immediately**.
- use the **FIX-ESTROPAJO**, a trowel with handle included with a white fibre Scotch-Brite scourer with 1 cm thickness.
- using cold water is sufficient although the process is easier if the water is warm.
- liquid remains should be mopped up with the **FIX-ESPONJA**, a trowel with handle included with a special sponge. Easy sponge rinsing can be carried out using the **FIX-BUCKET**.
- The final cleaning can be carried out the next day with water, soap and the **FIX-ESTROPAJO**.

Industrial grouting on: **Large areas**

- fill the joints with a rotating machine fitted with **hard rubber rods.**
- re-distribute the remains with the **FIX-ESPATULA** or with a hard rubber rake.
- **Cleaning:** eliminate remains **immediately**.
- use the same rotating machine now fitted with white felt (Scotch-Brite type) of 2 cm, and a small amount of cold water (the process is simpler with warm water).
- Clean up excess liquid with the **FIX-ESPONJA** and the **FIX-BUCKET** or simply drag it to the nearest drain with a hard rubber rake.
- The final cleaning can be carried out the following day using water, soap and the **FIX- ESTROPAJO**.

CLEANING TOOLS

Clean tools with water or **EPOXINET** before the **CERPOXI FLUID** hardens.

CONSUMPTION:

Size of tile (mm.)	Thickness of the tile (mm.)	Joint width (mm.)	Performance (Kg/m^2)
25 x25	5	2	1.0
100 x100	6	4	0.8
120 x240	10	8	1.6
100 x200	10	6	1.5
150 x300	12	10	1.9

TECHNICAL DATA

DIRECTIVES EN 13.888

PRODUCT

- Type: RG
  Grouting material for reactive resins
- Aspect part "A" and "B": Fluid liquids
- Aspect part "C": Powder
- % of solids: 100%
- Inflammable: No
- Toxicity: Contact with skin and eyes must be avoided. Always use gloves during installation, protective goggles are also recommended. In the case of skin contact, wash with plenty of soap and water. In case of eye contact wash with plenty of running water and consult a doctor.

APPLICATION

- Start the grouting if you have used:
  - fast cement glue: after 4 hours.
  - normal cement glue: after 24 hours.
- Density of mixture: 1.5 g/cm^3
- Temperature of application: from +12 °C to +30 °C (ideal +20 °C)
- Useful life: 1 hour (at +20 °C)
- Starting cleaning: 0 - 10 minutes
- Can be walked on: 14 hours (at +20 °C)
- Final hardening: 7 days (at +20 °C)

PERFORMANCE PROPERTIES

- Resistance to damp: excellent
- Resistance to ageing: excellent
- Resistance to acids/alkalis: excellent
- Resistance to solvents: very good
- Resistance to abrasion: $\leq$ 250 mm^3
- Resistance to flexion after dry storing: $\geq$ 30 N/mm^2
- Resistance to compression after dry storing: $\geq$ 45 N/mm^2
- Retraction: $\leq$ 1.5 mm/m
- Water absorption after 240 min: $\leq$ 0.1 g
- Range of working temperatures: from -20°C to +50°C

STORAGE

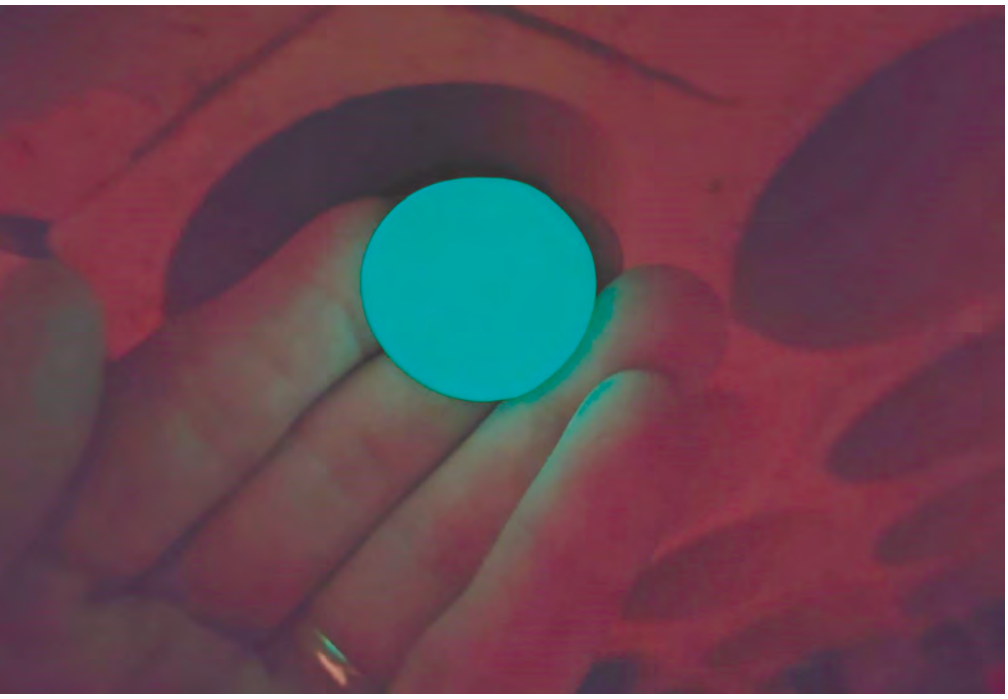
- In a covered area, protected from heat and freezing temperatures, kept in its original containers: 2 years

PRESENTATION AND COLOURS

- Supplied in 25 colors in: 18-kg pots. (3 units of 6Kg.)

CERPOXI STAR

Acid-resistant mortar for sealing joints from 0 to 10 mm with HIGH PHOTOLUMINESCENT properties.



FIELDS OF APPLICATION

Grouting:

- Grouting vertical and horizontal joints between tiles in INTERIORS and EXTERIORS.
- Filling anti-acid tile joints for the following **industries**: chemical, dairy, food, galvanising, paper, cheese, beer, slaughterhouse, canning factories and tanneries, **kitchens**, bathrooms, cutting rooms, **swimming pools**...
- Filling of joints in bathrooms, changing rooms, discotheques, etc.
- The use of this joint can have two different objectives:
  -a **safety** objective: we can complement (never replace) the signs for signaling the evacuation routes and/or ensure an intense and constant luminescence in any condition, even if the emergency lights fail
  -an **aesthetic/festive** objective: designing photoluminescent spaces is "entertainment areas".

TECHNICAL CHARACTERISTICS:

CERPOXI STAR is a three-component compound made using selected sand, stable pigments and special additives which harden through a simple chemical reaction, resulting in an exceptional product for:

- Extraordinary PHOTOLUMINESCENCE even in conditions of total darkness.
- Product classified as type A: HIGH LUMINESCENCE
- It recharges very quickly with natural light and also with artificial light or leds.
- Its luminescence remains active all night.
- It has zero maintenance: we only have to ensure that the surface is clean of mud that could cause opacity.
- Its luminescent properties do not diminish over time.
- High mechanical resistance.
- Excellent fluidity: it is an easy-to-apply epoxy.
- Totally impermeable: 100%.
- When applied on vertical joints it does not drop.

WARNING

- **CERPOXI STAR** is not an expansion joint (use **SELLALASTIC, SELLAFIX** or **SILICONA NEUTRA**).
- Do not use the grouting material on wet, dirty or dusty tiles.
- Take special care cleaning when grouting non-glazed materials.
- Do not make half and half mixes. Mix the total quantity of the three components.
- Do not add any other component to the **CERPOXI STAR** which could modify its characteristics.

HOW TO USE

- **Preparation of the joints:**
  Clean all the joints before applying **CERPOXI STAR**. The aim is to have resistant, solid joints, free from dust, paint, wax, oil or grease etc.
- **Preparation of the components:**
  The ideal application temperature is +20 °C. When the temperature is very low and the liquids are cold and viscous, submerge the bottles in hot water (not boiling) until they become liquid.
- **Preparation of the mixture:**
  1) A kit is made up of:
     1 large bottle of liquid
     1 small bottle of liquid
     1 bottle of powder
  2) Empty the entire content of **the two bottles** into a bucket.
  3) Add the powder into the liquids.
  4) Mix using a spiral mechanical mixer drill attachment at high revolutions.
- **Application of the mixture:**
  Manual grouting on: coverings and surfaces
  - fill the joints with a rubber **FIX-ESPATULA**.
  - mark the joints diagonally.
  - collect the excess with the edge of the same spatula.

- **Cleaning:** eliminate remains **immediately**.
- use the **FIX-ESTROPAJO**, a trowel with handle included with a white fibre Scotch-Brite scourer with 1 cm thickness.
- using cold water is sufficient although the process is easier if the water is warm.
- liquid remains should be mopped up with the **FIX-ESPONJA**, a trowel with handle included with a special sponge. Easy sponge rinsing can be carried out using the **FIX-BUCKET**.
- The final cleaning can be carried out the next day with water, soap and the **FIX-ESTROPAJO**.

CLEANING TOOLS

Clean tools with water or **EPOXINET** before the **CERPOXI STAR** hardens.

OFFICIAL RESULTS OF ENAC LABORATORY:

Time (min)	Luminance minimum required value (mcd/m2)	Value obtained from Luminance (mcd/m2)
10	210	425
60	29	57.7

(mcd =milicandle)

Minimum attenuation time required (min)	Attenuation time obtained (min)
3000	7526

CONSUMPTION:

Size of tile (mm.)	Thickness of the tile (mm.)	Joint width (mm.)	Performance (Kg/m^2)
25 x25	5	2	1.0
100 x100	6	4	0.8
120 x240	10	8	1.6
100 x200	10	6	1.5
150 x300	12	10	1.9

TECHNICAL DATA

DIRECTIVES

EN 13.888

UNE EN ISO 23035-1:2003

PRODUCT

- Type: RG: grouting material for reactive resins Type A: high luminescence
- Aspect part "A" and "B": Fluid liquids
- Aspect part "C": Powder
- % of solids: 100%
- Inflammable: No
- Toxicity: Contact with skin and eyes must be avoided. Always use gloves during installation, protective goggles are also recommended. In the case of skin contact, wash with plenty of soap and water. In case of eye contact wash with plenty of running water and consult a doctor.

APPLICATION

- Start the grouting if you have used:
  - fast cement glue: after 4 hours.
  - normal cement glue: after 24 hours.
- Density of mixture: 1.5 g/cm^3
- Temperature of application: from +12 °C to +30 °C (ideal +20 °C)
- Useful life: 1 hour (at +20 °C)
- Starting cleaning: 0 - 10 minutes
- Can be walked on: 14 hours (at +20 °C)
- Final hardening: 7 days (at +20 °C)

PERFORMANCE PROPERTIES

- Resistance to damp: excellent
- Resistance to ageing: excellent
- Resistance to acids/alkalis: excellent
- Resistance to solvents: very good
- Resistance to abrasion: $\leq$ 250 mm^3
- Resistance to flexion after dry storing: $\geq$ 30 N/mm^2
- Resistance to compression after dry storing: $\geq$ 45 N/mm^2
- Retraction: $\leq$ 1.5 mm/m
- Water absorption after 240 min: $\leq$ 0.1 g
- Range of working temperatures: from -20°C to +50°C

STORAGE

- In a covered area, protected from heat and freezing temperatures, kept in its original containers: 2 years

PRESENTATION AND COLOURS

- Supplied in TRANSLUCID color: 2-kg pots.

PROFESSIONAL PX

Acid-resistant cement glue for the gluing and sealing of glass mosaic and/or ceramic tiles onto rigid polyester pools.

WARNING:

- **PROFESSIONAL PX** is not for expansion joints (use **SELLALASTIC** or **SILICONA NEUTRA**).
- Do not use grouting material on tiles that are wet, dirty, full of dust, etc.
- Take special care with cleaning when grouting materials that are not enamelled.
- Do not make half mixes. Mix all three components completely.
- Do not add any other component to **PROFESSIONAL PX** that could modify its characteristics.

FIELDS OF APPLICATION

Grouting:

- Sealing of joints between paving tiles indoors and outdoors, on walls and floors, with no running whatsoever.
- Grouting of acid-resistant paving tile joints **in industries:** chemical, milk, food, galvanization, paper, cheese, beer, slaughterhouses, preserve plants, tanning plants, etc.
- Grouting of joints in **kitchens**, dining rooms, cutting plants, etc.
- The ideal joint for dry laying without cement-based adhesive.
- Filling joints in chlorinated or salt water chlorinated public **swimming pools**, **baths**, showers, areas with water, etc.

Laying:

- Laying of paving tiles in general and acid-resistant ceramic tiles on walls and floors where **fast-setting and acid-resistant** qualities are required.
- Laying and grouting tiles on polyester pools.

TECHNICAL CHARACTERISTICS

PROFESSIONAL PX is a three-component compound based on selected sand, stable pigments and special additives that harden by simple chemical reaction, thereby resulting in an exceptional product due to its:

- Optimum chemical resistance to: detergents, corrosive acids, etc.
- Excellent adherence to supports such as: ceramic, concrete, steel, wood, fibre cement, etc.
- High mechanical resistance.
- It is very elastic.
- Maximum fluidity: it is an easily applied epoxy.
- Complete impermeability: 100%.
- Resistance to ageing and to stains.
- Applied to vertical joints, it does not run at all.
- Easier maintenance than cement-based joints.
- It has an extraordinary pot life, and it is also fast-setting.

HOW TO USE

- **Preparing the joints:**
  All joints must be cleaned before applying **PROFESSIONAL PX**. The objective is to begin with joints that are strong, solid and free of dust, paint, wax, oils, grease, etc.
- **The ideal application temperature is 20º C. When the temperature is very low and the liquids are cold and viscous, submerge the bottles in hot water (not boiling temperature) until the liquids become fluid again.**
- **Preparation of the mixture:**
  1) One set is formed by the following:
     1 large bottle of liquid
     1 small bottle of liquid
     1 bag of powder
  2) Empty the content of the two bottles completely into a tub.
  3) Pour the powder on top of the liquids.
  4) Mix with a spiral blender connected to an electric drill at high rpm's.
- **Application of the mixture:**
  Manual grouting on: walls and/or floors
  - Grout joints using the **FIX-ESPATULA** rubber spatula.
  - Go over the joints diagonally.

- Pick up excess using the edge of the spatula.
- **Cleaning:** eliminate remains immediately.
- Use the **FIX-ESTROPAJO:** a trowel with a handle and a white fibre Scotch-Brite pad that is 1-cm thick.
- It is OK to use cold water, although if it is warm the process is simpler.
- Use the **FIX-ESPONJA** to pick up liquid remains: a handled trowel equipped with a special sponge. The sponge can be rinsed easily in the **FIX-BUCKET.**
- Final cleaning is done the next day using water, soap and the **FIX-ESTROPAJO.**

Industrial grouting for: Large surfaces.

- Grout joints using a rotary machine equipped with **hard rubber blades.**
- Re-distribute the remains using the **FIX-ESPATULA** or a hard rubber squeegee.
- **Cleaning:** eliminate remains **immediately.**
- Use the same rotary machine, now outfitted with a 2-cm thick white cloth (Scotch-Brite type) and a little bit of cold water (the process is simpler if the water is warm).
- Pick up the excess liquid using the **FIX-ESPONJA** and the **FIX-BUCKET** or simply direct it to a drain using a hard rubber squeegee.
- Final cleaning is done the next day using water, soap and the **FIX-ESTROPAJO.**

◆ **Laying with PROFESSIONAL PX:**
To glue ceramic pieces, extend **PROFESSIONAL PX** using a toothed trowel, and apply sufficient pressure to the tile to ensure that it bonds correctly.

TOOL CLEANING
Clean the tools with water or **EPOXINET** before the **PROFESSIONAL PX** hardens.

The final cleaning is done the next day with water and **FIX-SABO.**

CONSUMPTION:

Size of the piece (mm)	Thickness of the piece (mm)	Width of the joint (mm)	Yield (kg/m^2)
25 x 25	5	2	1.0
100 x 100	6	4	0.8
120 x 240	10	8	1.6
100 x 200	10	6	1.5
150 x 300	12	10	1.9

TECHNICAL DATA:

DIRECTIVES: EN-13.888, EN-12.004

PRODUCT:
- Type: RG reactive resin grout material R2 T reactive resin adhesive with additional characteristics and no running.
- Aspect of part "A" and "B": fluid liquids
- Aspect of part "C": powder
- % of solids: 100%
- Flammability: No
- Toxicity: Contact with the skin and eyes must be avoided. Always use gloves when laying, and the use of protective goggles is recommended. In case of contact with the skin, rinse with plenty of water and soap. In case of contact with eyes, rinse immediately with plenty of running water and seek medical advice.

APPLICATION:
- Start of grouting if the following has been used:
  - fast-drying cement-based adhesive: after 4 hours.
  - normal cement-based adhesive: after 24 hours.
- Density of the mixture: 1.4 g/cm^3
- Application temperature: 12° C to 30° C (ideal is 20° C)
- Pot life: 1 hour (at 20° C)
- Start of cleaning: 0 - 10 minutes
- Able to withstand traffic after: 14 hours (at 20° C)
- Final hardening: 7 days (at 20° C)

FINAL QUALITIES:
- Resistance to humidity: excellent
- Resistance to ageing: excellent
- Resistance to acids/alkalis: excellent
- Resistance to solvents: very good
- Resistance to abrasion: $\leq$ 250 mm^3
- Resistance to flexing after dry storage: $\geq$ 30 N/mm^2
- Resistance to compression after dry storage: $\geq$ 45 N/mm^2
- Shrinkage: $\leq$ 1,5 mm/m
- Water absorption after 240 min.: $\leq$ 0,1 g
- Shear initial adhesion: $\geq$ 2 N/mm^2
- Shear adhesion after immersion in water: $\geq$ 2 N/mm^2
- Pot life: adherence (20 min) $\geq$ 0,5 N/mm^2
- Slip: $\leq$ 0,5 mm
- Shear adhesion after thermal shock: $\geq$ 2 N/mm^2
- Service temperature range: -20° C to 50° C

STORAGE:
In a covered place, protected from heat and from freezing, kept in its original container: 2 years

PRESENTATION AND COLOURS:
Supplied in 25 colours in: 5/kg tubs. 20/kg tubs (4 sets of 5 kg)

PROFESSIONAL PX COLD

ACID-RESISTANT mortar for gluing and/or grouting in areas with minimum temperatures of +5°C

WARNING:

- **PROFESSIONAL PX COLD** is not for expansion joints (use **SELLALASTIC** or **SILICONA NEUTRA**).
- Do not use the material at temperatures above+10°C.
- Do not use grouting material on tiles that are wet, dirty, full of dust, etc.
- Do not make half mixes. Mix all three components completely.
- Do not add any other component to **PROFESSIONAL PX COLD** that could modify its characteristics.

FIELDS OF APPLICATION

Grouting:

- Sealing of joints between paving tiles indoors and outdoors, on walls and floors, with completely antisagging and in areas with minimum temperatures of +5°C.
- Grouting of acid-resistant paving tile joints **in industries:** chemical, milk, food, galvanization, paper, cheese, beer, slaughterhouses, preserve plants, tanning plants, etc.
- Grouting of joints in **kitchens**, dining rooms, cutting plants, etc.
- The ideal joint for dry laying without cement-based adhesive.
- Filling of joints in public swimming pools with saline or traditional chlorination, bathrooms, showers, water areas, etc.

Laying:

- Laying of paving tiles in general and acid-resistant ceramic tiles on walls and floors where **fast-setting and acid-resistant** qualities are required.

TECHNICAL CHARACTERISTICS

PROFESSIONAL PX COLD is a three-component compound based on selected sand, stable pigments and special additives that harden by simple chemical reaction, thereby resulting in an exceptional product due to its:

- It's reactive at cold temperatures but always above +5°C.
- Optimum chemical resistance to: detergents, corrosive acids, etc.
- Excellent adherence to supports such as: ceramic, concrete, steel, wood, fibre cement, polyester, etc.
- High mechanical resistance.
- It is very elastic.
- Maximum fluidity: it is an easily applied epoxy.
- Complete impermeability: 100%.
- Resistance to ageing and to stains.
- Applied to vertical joints, it does not run at all.
- Easier maintenance than cement-based joints.
- It has an extraordinary pot life, and it is also fast-setting.

HOW TO USE

- **Preparing the joints:**
  All joints must be cleaned before applying **PROFESSIONAL PX COLD**. The objective is to begin with joints that are strong, solid and free of dust, paint, wax, oils, grease, etc.
- **The ideal application temperature is 20ºC although at +5ºC the polymerization reaction also happens efficiently and quickly. When the temperature is very low and the liquids are cold and viscous, submerge the bottles in hot water (not boiling temperature) until the liquids become fluid again.**
- **Preparation of the mixture:**
  1) One set is formed by the following:
     1 large bottle of liquid
     1 small bottle of liquid
     1 bag of powder
  2) Empty the content of the two bottles completely into a tub.
  3) Pour the powder on top of the liquids.
  4) Mix with a spiral blender connected to an electric drill at high rpm's.
- **Application of the mixture:**
  Manual grouting on: walls and/or floors
  - Grout joints using the **FIX-ESPATULA** rubber spatula.
  - Go over the joints diagonally.

- Pick up excess using the edge of the spatula.
- **Cleaning:** eliminate remains immediately.
- Use the **FIX-ESTROPAJO:** a trowel with a handle and a white fibre Scotch-Brite pad that is 1-cm thick.
- It is OK to use cold water, although if it is warm the process is simpler.
- Use the **FIX-ESPONJA** to pick up liquid remains: a handled trowel equipped with a special sponge. The sponge can be rinsed easily in the **FIX-BUCKET.**
- Final cleaning is done the next day using water, soap and the **FIX-ESTROPAJO.**

Industrial grouting for: on large surfaces PROFESSIONAL PX COLD is too fast to be able to use with rotary machine. We recommend grouting manually with the FIX-ESPATULA BLUE RUBBER.

◆ **Laying with PROFESSIONAL PX COLD:** To glue ceramic pieces, extend **PROFESSIONAL PX COLD** using a toothed trowel, and apply sufficient pressure to the tile to ensure that it bonds correctly.

TOOL CLEANING

Clean the tools with water or **EPOXINET** before the **PROFESSIONAL PX COLD** hardens.

CONSUMPTION:

Size of the piece (mm)	Thickness of the piece (mm)	Width of the joint (mm)	Yield (kg/m^2)
25 x 25	5	2	1.0
100 x 100	6	4	0.8
120 x 240	10	8	1.6
100 x 200	10	6	1.5
150 x 300	12	10	1.9

TECHNICAL DATA:

DIRECTIVES: EN-13.888, EN-12.004

PRODUCT:

- Type: RG reactive resin grout material R2 T reactive resin adhesive with additional characteristics and no running.
- Aspect of part "A" and "B": fluid liquids
- Aspect of part "C": powder
- % of solids: 100%
- Flammability: No
- Toxicity: Contact with the skin and eyes must be avoided. Always use gloves when laying, and the use of protective goggles is recommended. In case of contact with the skin, rinse with plenty of water and soap. In case of contact with eyes, rinse immediately with plenty of running water and seek medical advice.

APPLICATION:

- Start of grouting if the following has been used:
  - fast-drying cement-based adhesive: after 4 hours.
  - normal cement-based adhesive: after 24 hours.
- Density of the mixture: 1.4 g/cm^3
- Application temperature: +5°C to +15°C (ideal is +10°C)
- Pot life: 21 hours (at +5°C)
- Start of cleaning: 0 - 10 minutes
- Able to withstand traffic after: 9 hours (at +5°C)
- Final hardening: 1 day (at +5°C)

FINAL QUALITIES:

- Resistance to humidity: excellent
- Resistance to ageing: excellent
- Resistance to acids/alkalis: excellent
- Resistance to solvents: very good
- Resistance to abrasion: $\leq$ 250 mm^3
- Resistance to flexing after dry storage: $\geq$ 30 N/mm^2
- Resistance to compression after dry storage: $\geq$ 45 N/mm^2
- Shrinkage: $\leq$ 1,5 mm/m
- Water absorption after 240 min.: $\leq$ 0,1 g
- Shear initial adhesion: $\geq$ 2 N/mm^2
- Shear adhesion after immersion in water: $\geq$ 2 N/mm^2
- Pot life: adherence (20 min) $\geq$ 0,5 N/mm^2
- Slip: $\leq$ 0,5 mm
- Shear adhesion after thermal shock: $\geq$ 2 N/mm^2
- Service temperature range: -20° C to 50° C

STORAGE:

In a covered place, protected from heat and from freezing, kept in its original container: 2 years

PRESENTATION AND COLOURS:

Supplied in : 5/kg tubs.
20/kg tubs (4 sets of 5 kg)

CERPOXI & PROFESSIONAL PX: CHEMICAL RESISTANCES

RESISTANCE TO ACIDS				
PRODUCT	CONCENTRATION	LAB TABLES	PAVEMENTS	
			strong exposure	ocassional exposure
Acetic	2,5% 5% 10%	+ + -	+ (+) -	+ + +
Chlorhydric	37%	+	+	+
Cromic	20%	(+)	(+)	(+)
Citric	10%	(+)	+	+
Formic	2,5% 10%	+ -	+ (+)	+ (+)
Lactic	5% 10%	+ (+)	+ -	+ (+)
Nitric	25% 50%	+ -	(+) -	+ -
Pure Oil	-	-	-	-
Phosphoric	50% 75%	+ (+)	+ -	+ -
Sulphuric	1,5% 50% 96%	+ (+) -	+ (+) -	+ (+) -
Tannic	10%	+	+	+
Tartaric	10%	+	+	+
Oxalic	10%	+	+	+
RESISTANCE TO ALCALI AND SALINE SOLUTIONS				
of Ammonia	25%	+	+	+
of caustic soda	50%	+	+	+
of hipochlorite Na: active chlorine	6,4 g/l. 162 g/l.	+ -	(+) -	+ -
of Hyposulfite of Na		+	+	+
of calcium chloride		+	+	+
of ferrum chloride		+	+	+
of sodium chloride		+	+	+
of sodium chromate		+	+	+
of sugar		+	+	+
of aluminium sulphate		+	+	+
of permanganate	5% 10%	+ (+)	(+) -	+ (+)
of potassium hydroxide	50%	+	+	+
of mercuric chloride	5%	+	+	+
of peroxide	1% 10% 25%	+ + +	+ + (+)	+ + +

RESISTANCE TO SOLVENTS				
PRODUCT	CONCENTRATION	LAB TABLES	PAVEMENTS	
			strong exposure	ocassional exposure
Acetone		-	-	(+)
Ethylenglicol		+	+	+
Glycerine		+	+	+
Methyl solvent		-	-	-
Perchlorethylene		-	-	(+)
Carbon tetrachloride		(+)	-	(+)
Ethyl alcohol		+	(+)	+
Trichloroethylene		-	-	(+)
Chloroform		-	-	-
Chloride methylene		-	-	-
Tetrahydrofuran		-	-	-
Toluene		-	-	(+)
Carbon sulphide		(+)	-	(+)
Petroleum solvents		+	+	+
Benzol		-	-	(+)
Trochloretane		-	-	-
Xylenol		-	-	-
RESISTANCE TO GREASE AND FUEL				
Petroleum, fuels		+	+	+
Acetone		+	+	+
Diesel oil		+	+	+
Carbon		+	(+)	(+)
Olive oil		+	+	+
Light gasoline		+	+	+
Heavy gasoline		+	+	+
Petroleum		+	+	+

+	Excellent resistance
(+)	Good resistance
-	Scant resistance

WARNING
The application of greater concentrations than those mentioned here, as well as the mixture of various acids can lead to premature erosion of the joints or discolouring.

FIXCER

CEMENTITIOUS ADHESIVES

FIXACER

Glue cement for STICKING CERAMICS, whose absorption rate exceeds 3%. Indoors.

WARNING

FIXACER should not be used:

- For EXTERIORS (use **FIXACER** + **ADIFLEX** or **FIXAFLEX GEL**)
- On prefabricated walls.
- On plaster or non-waterproofed plasterboard walls (use **FIX PORCELANICO GEL**).
- For sticking large tiles or pieces of marble (use **FIXAGRES FLEX CAPA GRUESA**).
- For sticking porcelain stoneware (use **FIX PORCELANICO GEL**).
- For sticking non-absorbent floor tiles on non-absorbent supports (use **FIXAFLEX GEL**).
- In installations for heating built in the space between floors (use **FIXACER** + **ADIFLEX** or **FIXAFLEX GEL**)

FIELDS OF APPLICATION

- Installing ceramic floor tiles and mosaics, whose absorption rate exceeds 3% for flooring and wall coverings, INSIDE.
- Installing ceramic red or white paste floor tiles, ceramic mosaic on paper or mesh, extruded stoneware, etc. on supports of mortar, roughcast and rendering **FIXREVOCO** type, mosaics, cement asbestos, artificial stone, reinforced floating slabs and already set, **RECRECEM PRE-MIX** type, **PAVIFORT**, waterproof plasterboard, etc.

TECHNICAL SPECIFICATIONS

FIXACER is a white or grey glue cement, made with cement, finely granulated and selected aggregates, and synthetic additives which, mixed with water, give the cement easy workability with a toothed trowel, improving the water retention and high adhesiveness; for pieces whose absorption rate exceeds 3%.

HOW TO USE

- **Support:**

  All the supports must always be resistant, solid, free of dust, paint, wax, oil and grease and be perfectly set.

  Very absorbent supports or those exposed to the sun in warm periods, should be previously damped to prevent the fast loss of the mixing water.

- **Preparation of the mixture:**

  Mix with clean water until it is evenly mixed (6,25 litres of water per sack); use an electric mixer at low revolutions; leave to stand for 2 minutes and remix to obtain a paste that is ready to use.

- **Application of the mixture:**

  Preferably use a toothed trowel, with suitably sized teeth for the piece to be applied.

  You need not damp the pieces before installing them.

  Always apply pressure to the tile to ensure that the cement "wets" minimum 80% of the reverse of the ceramic tiles.Tap on the pieces with a rubber mallet. For difficult

applications, exteriors (with **ADIFLEX**) or for sticking pieces that are larger than 30x30, use the double gluing technique. For pieces with dovetails it is also essential. Make sure at all times that a surface layer does not form, using the tips of your fingers. If it does form, re-comb the cement with the toothed trowel (NEVER add more water).

◆ **Sealing joints:**

We recommend using a specific material such as **FIXCOLOR** (fine or thick grain), or **EUROCOLOR FLEX** or **IDEAL COLOR** or **CERPOXI** or **PROFESSIONAL PX**.

Apply **SELLALASTIC** or **SILICONA NEUTRA** to expansion joints.

CONSUMPTION:		
Mosaic of up to 5 x 5 cm:	3 mm toothed trowel.	approx. 2.4 Kg./m^2
Floor tiles of up to 15 x 15 cm:	6 mm toothed trowel.	approx. 2.5-3.0 Kg./m^2
Large sized floor tiles:	10 mm toothed trowel.	approx. 4.0 Kg./m^2

TECHNICAL DATA

DIRECTIVES	EN 12.004
PRODUCT	
• Type:	C1 T - with porous tiles: normal setting cementitious adhesive for indoor flooring and wall coverings. Mixed with ADIFLEX is suitable for exterior use .
• Density in powder:	1.5 g/cm^3
• Toxicity:	irritant, avoid contact with skin and eyes
APPLICATION	
• Mixing water:	6.25 litres per 25-kg sack.
• Density of the mixture:	1.4 g/cm^3
• Temperature of application:	+ 5°C to + 35 °C
• Open time:	20 min.
• Waiting time:	30 min.
• Useful life:	1 hour
• Thickness of layer:	< 10 mm.
• Grouting after:	24 hours
• Can be walked on after:	48 hours
PERFORMANCE PROPERTIES	
• Resistance to damp:	excellent
• Resistance to ageing:	excellent
• Resistance to solvents:	excellent
• Flexibility:	normal
• Initial adhesion:	$\geq$ 0.5 N/mm^2
• Adhesion after immersion in water:	$\geq$ 0.5 N/mm^2
• Adhesion after ageing through heat:	$\geq$ 0.5 N/mm^2
• Adhesion after freezing-thawing cycles:	$\geq$ 0.5 N/mm^2
• Pot life: adhesion (20 min):	$\geq$ 0.5 N/mm^2
STORING	
• In covered, dry, ventilated places:	12 months
PRESENTATION	
• Supplied in:	25-kg sacks, in Grey and White

FIX PORCELANICO FLEX

Cement glue for installing porcelanic tiles, ceramic tiles and natural stones for INDOORS and OUTDOORS pavements.

WARNING

FIX PORCELANICO FLEX should not be used:

- For supports subject to EXTREME vibrations or flexions (use **FIXACER** + **ADIFLEX**)
- For wood, metal surfaces, etc. (use **ELASTICER**)
- APPLYING WITH STROKES The glue cement should be applied with a toothed trowel or completely filling in the pieces.

FIELDS OF APPLICATION

- Is ideal for the laying of porcelain tiles on supports of mortar, in indoor and outdoor paving.
- Is ideal for the gluing of tiles, stoneware, mosaics, terracotta,... and interior bonding of porcelain tiles, and it is even more resistant to humidity than **FIXACER**: installation of tiles in bathrooms, shower areas, etc.
- **FIX PORCELANICO FLEX** is ideal for sticking low absorption tiles in bathrooms, kitchens, etc.
- Installing ceramic red or white paste tiles, ceramic mosaic, stoneware, etc. on supports of gypsum, anhydrite, gypsum board and gypsum-based surfaces on interior walls, waterproof plasterboard, etc.
- **FIX PORCELANICO FLEX** is a thin layered cement that is applicable in layers ranging from 3 to 10mm.

TECHNICAL CHARACTERISTICS

FIX PORCELANICO FLEX is a studied mixture of cements, selected arids, organic additives and inorganic resins that provide it with a special adherence. **FIX PORCELANICO FLEX** is a non drip cement glue.

APPLICATION:

- **Base:**
  All of the bases shall always be resistant, solid, free of dust, paint, wax, oil and fats and shall be perfectly hardened.

  Very absorbent bases or those that are exposed to the sun during the summer shall be previously dampened in order to avoid the quick loss of the mixtures' water.
- **Preparation of the mixture:**
  Mix approximately 6.25 litres of water with 25 kg of **FIX PORCELANICO FLEX**; use an electric mixer at low speed in order to avoid the creation of lumps.
- **Application of the mixture:**
  - Employ preferably a jagged trowel whose teeth-size is in relation to the piece to be applied.
  - It is not necessary to dampen the tiles before placing them.
  - Always apply pressure to the tile to ensure that the cement "wets" minimum 80% of the reverse of the ceramic tiles.

Tap on the pieces with a rubber mallet. the tiles in order to ensure a secure grasp.

- Protect the newly tiled floor from excessive heat, freezing, rain,... during the first 24 hours after their instalment, at least.

◆ **Sealing of the joints:**
We recommend the use of a specific material such as **FIXCOLOR** (fine or thick grained) or **EUROCOLOR FLEX** or **IDEAL COLOR** or **CERPOXI** or **PROFESSIONAL PX**.

In the expansion joints, apply a specific, elastic material, such as **SELLALASTIC** or **SILICONA NEUTRA**.

CONSUMPTION:		
Mosaic of up to 5 x 5 cm:	3 mm toothed trowel.	approx. 2.4 Kg./m^2
Floor tiles of up to 15 x 15 cm:	6 mm toothed trowel.	approx. 2.5-3.0 Kg./m^2
Large sized floor tiles:	10 mm toothed trowel.	approx. 4.0 Kg./m^2
Gluing of glass mosaic:		
Glass mosaic :	3 mm toothed trowel.	approx. 2.0 Kg./m^2

TECHNICAL DATA	
DIRECTIVES	EN 12.004
PRODUCT	
• Type:	C2 TE Enhanced setting cementitious adhesive with additional characteristics and reduced slip for bonding of porcelain tiles and glass mosaics.
• Density in powder:	1.34 g/cm^3
• Toxicity:	irritant, avoid contact with skin and eyes
APPLICATION	
• Mixing water:	6.25 litres per 25-kg sack.
• Density of the mixture:	1.43 g/cm^3
• Temperature of application:	+ 5°C to + 35°C
• Open time:	30 min.
• Waiting time:	30 min.
• Useful life:	1 hour
• Slip:	< 0.5 mm.
• Thickness of layer:	< 10 mm.
• Grouting after:	24 hours
• Can be walked on after:	48 hours
PERFORMANCE PROPERTIES	
• Resistance to damp:	excellent
• Resistance to ageing:	excellent
• Resistance to solvents:	excellent
• Flexibility:	good (flexion of 1.0mm.)
• Initial adhesion:	$\geq$ 1.0 N/mm^2
• Adhesion after immersion in water:	$\geq$ 1.0 N/mm^2
• Adhesion after ageing through heat:	$\geq$ 1.0 N/mm^2
• Adhesion after freezing-thawing cycles:	$\geq$ 1.0 N/mm^2
• Pot life: adhesion (30 min):	$\geq$ 0.5 N/mm^2
STORING	
• In covered, dry, ventilated places:	12 months
PRESENTATION	
• Supplied in:	25-kg sacks in grey and white color.

FIX PORCELANICO GEL

Cement glue with GEL texture for installing porcelanic tiles, ceramic tiles and natural stones for INDOORS and OUTDOORS pavements.

WARNING

FIX PORCELANICO GEL should not be used:

- For supports subject to EXTREME vibrations or flexions (use **FIXACER** + **ADIFLEX**)
- For wood, metal surfaces, etc. (use **ELASTICER**)
- APPLYING WITH STROKES The glue cement should be applied with a toothed trowel or completely filling in the pieces.

FIELDS OF APPLICATION

- Is ideal for the laying of porcelain tiles on supports of mortar, in indoor and outdoor paving.
- Is ideal for the **gluing** and grouting glass blocks.
- Is ideal for the gluing of tiles, stoneware, mosaics, terracotta,... and interior bonding of porcelain tiles, and it is even more resistant to humidity than **FIXACER**: installation of tiles in bathrooms, shower areas, etc.
- **FIX PORCELANICO GEL** is ideal for sticking low absorption tiles in bathrooms, kitchens, etc.
- Installing ceramic red or white paste tiles, ceramic mosaic, stoneware, etc. on supports of gypsum, anhydrite, gypsum board and gypsum-based surfaces on interior walls, waterproof plasterboard, etc.
- **FIX PORCELANICO GEL** is a thin layered cement that is applicable in layers ranging from 3 to 10mm.

TECHNICAL CHARACTERISTICS

FIX PORCELANICO GEL is a studied mixture of cements, selected arids, organic additives and inorganic resins that provide it with a special adherence. **FIX PORCELANICO GEL** is a non drip cement glue.

APPLICATION:

- **Base:**
  All of the bases shall always be resistant, solid, free of dust, paint, wax, oil and fats and shall be perfectly hardened.

  Very absorbent bases or those that are exposed to the sun during the summer shall be previously dampened in order to avoid the quick loss of the mixtures' water.
- **Preparation of the mixture:**
  Mix approximately 6.5 litres of water with 25 kg of **FIX PORCELANICO GEL**; use an electric mixer at low speed in order to avoid the creation of lumps.
- **Application of the mixture:**
  - Employ preferably a jagged trowel whose teeth-size is in relation to the piece to be applied.
  - It is not necessary to dampen the tiles before placing them.
  - Always apply pressure to the tile to ensure that the cement "wets" minimum 80% of the reverse of the ceramic tiles.

Tap on the pieces with a rubber mallet. the tiles in order to ensure a secure grasp.

- Protect the newly tiled floor from excessive heat, freezing, rain,... during the first 24 hours after their instalment, at least.

◆ **Sealing of the joints:**
We recommend the use of a specific material such as **FIXCOLOR** (fine or thick grained) or **EUROCOLOR FLEX** or **IDEAL COLOR** or **CERPOXI** or **PROFESSIONAL PX**.

In the expansion joints, apply a specific, elastic material, such as **SELLALASTIC** or **SILICONA NEUTRA**.

CONSUMPTION:		
Mosaic of up to 5 x 5 cm:	3 mm toothed trowel.	approx. 2.4 Kg./m^2
Floor tiles of up to 15 x 15 cm:	6 mm toothed trowel.	approx. 2.5-3.0 Kg./m^2
Large sized floor tiles:	10 mm toothed trowel.	approx. 4.0 Kg./m^2
Gluing of glass mosaic:		
Glass mosaic :	3 mm toothed trowel.	approx. 2.0 Kg./m^2

TECHNICAL DATA	
DIRECTIVES	EN 12.004
PRODUCT	
• Type:	C2 TE Enhanced setting cementitious adhesive with additional characteristics and reduced slip for bonding of porcelain tiles and glass mosaics.
• Density in powder:	1.58 g/cm^3
• Toxicity:	irritant, avoid contact with skin and eyes
APPLICATION	
• Mixing water:	6.5 litres per 25-kg sack.
• Density of the mixture:	1.61 g/cm^3
• Temperature of application:	+ 5°C to + 35°C
• Open time:	30 min.
• Waiting time:	30 min.
• Useful life:	1 hour
• Slip:	< 0.5 mm.
• Thickness of layer:	< 10 mm.
• Grouting after:	24 hours
• Can be walked on after:	48 hours
PERFORMANCE PROPERTIES	
• Resistance to damp:	excellent
• Resistance to ageing:	excellent
• Resistance to solvents:	excellent
• Flexibility:	good (flexion of 1.0mm.)
• Initial adhesion:	$\geq$ 1.0 N/mm^2
• Adhesion after immersion in water:	$\geq$ 1.0 N/mm^2
• Adhesion after ageing through heat:	$\geq$ 1.0 N/mm^2
• Adhesion after freezing-thawing cycles:	$\geq$ 1.0 N/mm^2
• Pot life: adhesion (30 min):	$\geq$ 0.5 N/mm^2
STORING	
• In covered, dry, ventilated places:	12 months
PRESENTATION	
• Supplied in:	25-kg sacks in grey and white color.

FIXAFLEX GEL

HIGHLY ADHERENT flexible cement glue.
with GEL texture: very fine and anti-sagging.
Outdoors: ideal for pavements and façades.
Indoors: ideal for laying porcelain stoneware on old tiles.

WARNING

FIXAFLEX GEL should not be used:

- Without abiding by all technical application instructions.
- For surfaces subject to extreme variations (use **ELASTICER**).
- For very THICK pieces applied to façades without anchorages. Consult the current norms regarding that matter.
- On wet surfaces.
- Beyond the allowed temperature range.

FIELDS OF APPLICATION:

- Due to its high degree of **flexibility**, it is the ideal product to place ceramic tiles on:

  façades, balconies, terraces, heavily transited areas, airports, supermarkets, hospitals, radiant floor systems, old ceramic tiles,...

- Delicate placing of ceramic tiles that are **NOT AT ALL ABSORBENT** on **NON-ABSORBENT** ceramic.

- Placing of stoneware or porcelain stoneware directly on gypsum wallboard plaster-board such as dampproof Pladur, or placing of stoneware or porcelain stoneware on plaster or NORMAL gypsum wallboard plaster-board following priming with **HIDRO-PRIMER**.

- Placement of polystyrene isolation panels, mineral wool, soundproofing panels...

- **FIXAFLEX GEL** is a thin layered cement applicable in layers measuring from 3 to 10 mm

TECHNICAL FEATURES:

FIXAFLEX GEL is a careful mixture of cements, selected arids, specific additives and resins.

FIXAFLEX GEL is very easy and enjoyable to use thanks to its special viscosity and tixotrophy.

FIXAFLEX GEL does not droop, it is flexible and develops extraordinary adherence.

APPLICATION:

- **Surface:**
  All surfaces must be resistant, solid, free of dust, paint, wax, oils and grease. They will also be thoroughly hardened.

  Very absorbent surfaces or those that are exposed to the sun during the summer must be previously dampened to avoid the rapid loss of water contained in the mixture.

- **Preparation of the mixture:**
  Mix approximately with 30% of clean water until it is thoroughly mixed (maximum 7.5 litres of water for each 25 Kg sack of cement); use the electric mixer at low speed to prevent lumps.

- **Application of the mixture:**
  - Preferably use a toothed trowel. The tooth size will be in accordance with the size of the tile to be glued.
  - It is not necessary to dampen the tiles before placement.

- In difficult or outdoor applications, use the double-pasting technique. To adhere pieces larger than 30x30cm or weighing more than 40 kg/m2, use an appropriate metal anchor as well.
- Use your fingertips at all times to ensure that a superficial coat does not appear. If such coat does develop, the cement must be combed anew with the toothed trowel (never dampen with water).
- Always apply pressure to the tile to ensure that the cement "wets" minimum 80% of the reverse of the ceramic tiles. Tap on the pieces with a rubber mallet.
- Protect the recently laid pavement from excessive heat, freezing temperatures, rain... during at least 24 hours after it has been laid.
- The application of expanded polystyrene isolation panels is carried out by applying dollops of cement to the reverse side of the sheet. The panel must be evenly applied.

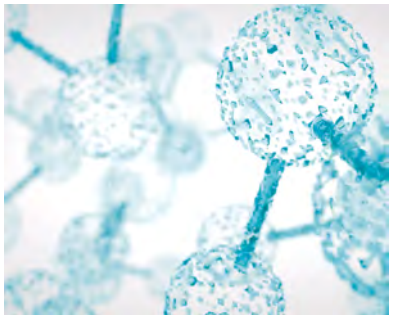
◆ **Sealing of the joints**:
We recommend the use of a specific material such as **FIXCOLOR** (fine or thick grains) or **EUROCOLOR FLEX** or **IDEAL COLOR** or **CERPOXI** or **PROFESSIONAL PX**.

In the expansion joints, apply a specific, elastic material, such as **SELLALASTIC** or **SILICONA NEUTRA.**

CONSUMPTION:	
As binding cement: depending on the size of the piece:	from 2 to 5.5 Kg/m^2
Adhesion by points of insulation boards:	from 0.5 to 0.8 Kg/m^2

TECHNICAL DATA	
DIRECTIVES	EN 12.004
PRODUCT	
• Type:	C2 TE S1 Normal setting, reduced slip, cementitious adhesive.
• Density in powder:	1.5 g/cm^3
• Toxicity:	irritant, avoid contact with skin and eyes
APPLICATION	
• Mixing water:	7.5 litres per 25-kg sack.
• Density of the mixture:	1.7 g/cm^3
• Temperature of application:	+ 5°C to + 35°C
• Open time:	30 min.
• Waiting time:	30 min.
• Useful life:	1 hour
• Slip:	< 0.5 mm.
• Thickness of layer:	< 10 mm.
• Grouting after:	24 hours
• Can be walked on after:	48 hours
PERFORMANCE PROPERTIES	
• Resistance to damp:	excellent
• Resistance to ageing:	excellent
• Resistance to solvents:	excellent
• Flexibility:	very good
• Initial adhesion:	≥ 1.0 N/mm^2
• Adhesion after immersion in water:	≥ 1.0 N/mm^2
• Adhesion after ageing through heat:	≥ 1.0 N/mm^2
• Adhesion after freezing-thawing cycles:	≥ 1.0 N/mm^2
• Pot life: adhesion (30 min):	≥ 0.5 N/mm^2
• Transverse deformation EN 12002:	≥ 2.5 mm
STORING	
• In covered, dry, ventilated places:	12 months
PRESENTATION	
• Supplied in:	25-kg sacks in white and grey color.


Fluid, thin, smooth,...the adhesive easier to apply.


GEL texture: fluidicity without slipping.

FIXMAX S2 GEL

HIGHLY DEFORMABLE cementitious adhesive with GEL texture with EXTRAORDINARY ADHESION. Ideal for outdoor façades. Super light: yields 30% more.

WARNING

FIXMAX S2 GEL should not be used:

- On substrates made of metal, plastic, PVC, rubber, uncured wood, etc. (use **ELASTICER**).
- To lay tiles with a large thermal dilation coefficient, such as Silestone, on façades or areas with considerable sun exposure (consult with the Tech. Dept.).
- Out of the admissible temperature range.
- To lay plating on waterproofing without first consulting with the Tech. Dept.
- Modifying the original formula in some way.
- In warmer seasons and outdoors without using the double-pasting technique.

FIELDS OF APPLICATION:

- **FIXMAX S2 GEL** was specially designed to COMPLY WITH THE EN-12.004 STANDARD. It is highly compliant with this standard, earning the highest mark from the official laboratory, C2 TE S2.
- It is ideal for laying large-format of ceramic tile even 1x3lm., both indoors and outdoors, including tiles, stoneware, porcelain stoneware, glass mosaic tiles, etc.
- It is ideal of adhering natural stone that is not especially sensitive to water.
- It allows adherence to substrates of plaster, gypsum, drywall, mortar, concrete, prefabricated panels, fibre cement,... radial flooring,... overlapping,... mortar substrates that have not hardened fully,...
- Its flexible nature means you can use it in places subject to vibrations: supermarkets, industrial areas, airports, high-traffic areas, schools, hospitals, etc.
- It is ideal for balconies, patios, swimming pools, kitchens, saunas, offices, stadiums, hotels, restaurants,... for everything.
- Because it is both flexible and adhesive, it is the very definition of an idea cement for laying ceramic tile on OUTDOOR FAÇADES: its maximum adhesion guarantees safety and its flexibility, maximum durability.

TECHNICAL SPECIFICATIONS

FIXMAX S2 GEL is a NEW CONCEPT in the world of single-component cementitious adhesives: its technical properties set it apart from the rest, making it the best cementitious adhesive around.

FIXMAX S2 GEL also exhibits other advantages when compared to a traditional cementitious adhesive:

- when mixed with water, you get **more volume**. That means:
- less density in the mixture, meaning...
- that it is easier to mix...
- greater performance per kg of powder: **you use 30% less** PRODUCT.
- lower transport costs..
- high thixotropy: it does not fall/drip...
- **longer open time** and
- more time to adjust the ceramic tile.

HOW TO USE

- **Substrate:**
  All substrates should always be resistant, solid and free of dust, paint, wax, oils and grease. They should not be subject to hydraulic shrinkage.

  When the substrate is gypsum, drywall or any derived products, it must have less than 0.5% humidity and be free of dust and efflorescence.

- **Preparing the mixture:**
  Mix each 20 kg bag with clean water until homogenous (5.4-5.8 litres of water per bag); use an electric mixer at a low rpm to prevent the formation of lumps. Let it sit for 2 minutes and remix. The mix will then be ready for use.

- **Applying the mixture:**
  It is better to use a notched trowel, adjusting the size of the notches depending on the size of the pieces to lay.

  You do not need to wet the pieces before laying them.

  In difficult or outdoor applications, use the

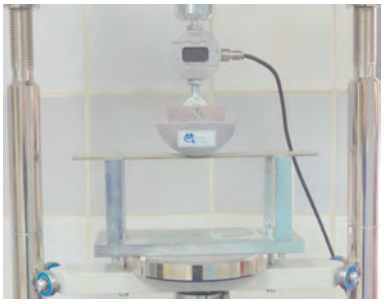
double-pasting technique. To adhere pieces larger than 30x30cm or weighing more than 40 kg/m^2, use an appropriate metal anchor as well. Use the tips of your fingers periodically to make sure that a skin has not formed on the surface. If a skin has formed, re-spread the adhesive with a notched trowel (never wet with water).

Always apply pressure to the tile to ensure that the cement "wets" minimum 80% of the reverse of the ceramic tiles. Tap on the pieces with a rubber mallet. Protect the freshly laid tiles from excessive heat, sub-zero temperatures, rain, etc. for at least 24 hours after their placement.

◆ **Sealing the joints:**
We recommend the use of a specific material like **FIXCOLOR** (fine or thick grain), **EUROCOLOR FLEX** or **IDEAL COLOR** or **CERPOXI** or **PROFESSIONAL PX**.

Use **SELLALASTIC** or **SILICONA NEUTRA** on the expansion joints.

FIXMAX S2 GEL: maximum adherence and...



...maximum flexibility.

CONSUMPTION:		
Mosaic up to 5x5 cm:	3 mm notched trowel	approx. 1.1 kg/m^2
Tile up to 20x20 cm:	6 mm notched trowel	approx. 2.3 kg/m^2
Tile up to 30x30 cm:	8 mm notched trowel	approx. 3.0 kg/m^2
Tile > 30x30 cm:	10 mm notched trowel	approx. 3.8 kg/m^2

TECHNICAL SPECIFICATIONS

STANDARDS	EN-12.004
PRODUCT	
• Type:	C2 TE S2 Improved, normal-drying cementitious adhesive with reduced slippage and additional characteristics: High flexibility.
• Powder density:	1.2 g/cm^3
• Toxicity:	irritant, avoid contact with eyes and skin.
APPLICATION	
• Mixing ratio:	5.4-5.8 litres / 20 kg bag
• Density of mixture:	1.2 g/cm^3
• Application temperature:	+ 5°C to + 35°C
• Open time:	30 min.
• Adjustment time:	40 min.
• Pot life:	1 hour
• Slippage:	< 0.5 mm.
• Thickness of layer:	< 15 mm.
• Sealing after:	24 hours
• Ready after:	48 hours
FINAL PERFORMANCE	
• Resistance to humidity:	excellent
• Resistance to aging:	excellent
• Resistance to solvents:	excellent
• Flexibility:	excellent
• Service temperature range:	-30°C to +90°C.
• Initial adherance:	≥ 1.0 N/mm^2
• Adherence after immersion in water:	≥ 1.0 N/mm^2
• Adherence after heat aging:	≥ 1.0 N/mm^2
• Adherence after freezing/thawing cycles:	≥ 1.0 N/mm^2
• Open time: adherence (30min):	≥ 0.5 N/mm^2
• Transverse deformation EN 12002:	≥ 5.0 mm
STORAGE	
• In covered, dry, ventilated areas, kept closed in its containers:	12 months
PRESENTATION	
• Supplied in:	20 kg bags in Grey and White

FIXAGRES FLEX THICK LAYER

Glue Cement for installing stoneware, porcelain, marble, granite, etc..., WITHOUT previously regularising the support. Maximum thickness 25 mm.

WARNING

FIXAGRES FLEX THICK LAYER should not be used:

- On pre-cast concrete.
- On supports subject to vibrations or flexions (use **FIXAGRES FLEX THICK LAYER** + **ADIFLEX**).
- On wood, cement asbestos, anhydride, metal surfaces, etc.
- To prevent the appearance of efflorescence on the surface of the stones (use **TECNOCOL GEL**).
- For installations of built in heating, or cooling systems (use **FIXAGRES FLEX THICK LAYER** + **ADIFLEX**).

FIELDS OF APPLICATION

- Installation of stoneware, porcelain stoneware, tiles, slabs of marble and granite and natural stone both INDOORS and in EXTERIORS on mortar and rendered supports.
- Indicated for directly tiling on supports that have not been previously regularised, obtaining thicknesses of up to 25 mm.
- Installation or flooring and wall coverings.
- Installing pieces with dovetails, rustic pieces, steps, manual terracotta, machine made tufa, natural and artificial stones and overall any thick piece or piece with irregular thickness.

TECHNICAL SPECIFICATIONS

FIXAGRES FLEX THICK LAYER is a glue cement, made with special cement, thick granulometry aggregates, resins and synthetic additives which, mixed with water, offer a cement with easy workability, applicable to horizontal and vertical surfaces with thicknesses of up to 25 mm without dropping.

HOW TO USE

- **Support:**
  All the supports must always be resistant, solid, free of dust, paint, wax, oil and grease and be perfectly set.

  Very absorbent supports or those exposed to the sun in warm periods, should be previously damped to prevent the fast loss of the mixing water.
- **Preparation of the mixture:**
  Mix with clean water until achieving an even consistency (5.0 litres of water per sack); use an electric mixer at low revolutions., to prevent lumps from forming. Leave to stand for 2 minutes and remix to obtain a paste that is ready to use.
- **Application of the mixture:**
  Preferably use a toothed trowel, with suitably sized teeth for the piece to be applied. We highly recommend using a trowel with semicircular teeth as this leaves the greatest, most even thickness of cement.

  You need not damp the pieces before installing them.

  When the support is irregular, we

recommend spreading it with a fine under layer with the help of a thin trowel. Then apply the necessary amount of cement with a toothed trowel.

In difficult or outdoor applications, use the double-pasting technique. To adhere pieces larger than 30x30cm or weighing more than 40 kg/m2, use an appropriate metal anchor as well. For pieces with dovetails it is also essential.

Make sure at all times that a surface layer does not form, using the tips of your fingers. If it does form, re-comb the cement with the toothed trowel (never add more water).

Always apply pressure to the tile to ensure that the cement "wets" minimum 80% of the reverse of the ceramic tiles.Tap on the pieces with a rubber mallet. Protect recently laid floors from excessive heat, frost, rain, etc, for at least 24 hours after installation.

◆ **Sealing joints:**
We recommend using a specific material such as **FIXCOLOR** (fine or thick grain), or **EUROCOLOR FLEX** or **IDEAL COLOR** or **CERPOXI** or **PROFESSIONAL PX**.

Apply **SELLALASTIC** or **SILICONA NEUTRA** to expansion joints.

CONSUMPTION:

1.6 Kg./m^2 per mm of thickness

TECHNICAL DATA

DIRECTIVES	EN 12.004
PRODUCT	
• Type:	C2 TE Enhanced normal setting cementitious adhesive with additional characteristics and reduced slip
• Density in powder:	1.7 g/cm^3
• Toxicity:	irritant, avoid contact with skin and eyes
APPLICATION	
• Mixing water:	5.0 litres per 25-kg sack.
• Density of the mixture:	1.69 g/cm^3
• Temperature of application:	+ 5°C to + 35 °C
• Open time:	30 min.
• Waiting time:	30 min.
• Useful life:	1 hour
• Slip:	< 0.5 mm.
• Thickness of layer:	< 25 mm.
• Grouting after:	24 hours
• Can be walked on after:	48 hours
PERFORMANCE PROPERTIES	
• Resistance to damp:	excellent
• Resistance to ageing:	excellent
• Resistance to solvents:	excellent
• Flexibility:	good
• Initial adhesion:	$\geq$ 1.0 N/mm^2
• Adhesion after immersion in water:	$\geq$ 1.0 N/mm^2
• Adhesion after ageing through heat:	$\geq$ 1.0 N/mm^2
• Adhesion after freezing-thawing cycles:	$\geq$ 1.0 N/mm^2
• Pot life: adhesion (30min):	$\geq$ 0.5 N/mm^2
STORING	
• In covered, dry, ventilated places:	12 months
PRESENTATION	
• Supplied in:	25-kg sacks, in Grey colour

FIXARAPID FLEX

Cementitious adhesive for URGENT alterations: Ready after just 90 minutes! High resistance in just 6 hours.

WARNING

FIXARAPID FLEX should not be used:

- On surfaces subject to vibrations or extreme bending (use **ELASTICER**).
- Out of the admissible temperature range.
- On gypsum walls, drywall, or any other substrate made primarily out of gypsum (use **FIX PORCELANICO GEL**).
- Outdoors without using the double-pasting technique.
- Modifying the formula.

FIELDS OF APPLICATION:

- To lay any type of tiles: ceramic tile, porcelain earthenware, glass mosaics, natural stones, hydraulic pavement, etc., on indoor and outdoor pavements and coatings that must be re-opened at "**some time or another**", on mortar substrates, stuccoes, **RECRECEM PRE-MIX**, **FIX-REVOCO**, **PAVIFORT**, **FIX-NIVEL** and similar substrates.
- Ideal for the placement of natural stones, slate, marble, granite, etc. It dries quickly, **preventing the appearance of efflorescence**.
- **Repairs** in bathrooms, kitchens, patios, public offices, supermarkets, industry, etc.
- **Rapid placement of stoneware**, porcelain stoneware, marble, etc. on stoneware, terrazzo, tiles etc.
- **General placements** that require **removal resistance of at least 0,5 N/mm^2** in just **6 hours.**

TECHNICAL SPECIFICATIONS

- **FIXARAPID FLEX** is a cementitious adhesive that exceeds industry standards. It has a **superior open time**, an unparalleled **pot life** and **exhibits a removal resistance of more than 0,5 N/mm^2 in just 6 hours**. It is the ideal adhesive for placing in record time.
- **FIXARAPID FLEX** is easy to apply, because its quick-hardening qualities are activated as soon as you place the ceramic tile; it is a fast-drying adhesive with an extra long open time.
- **FIXARAPID FLEX** is ready after just **90 minutes** so that you can begin **sealing**, and it is ready for light traffic in just 6 hours.

HOW TO USE

- **Substrate:**
  All substrates should always be resistant, solid and free of dust, paint, wax, oils, grease, etc. They should also be perfectly hardened.
  Moisten substrates that are highly absorbent or exposed to the sun in hotter months before starting to keep the mixture from loosing water to quickly.
- **Preparing the mixture:**
  Mix with clean water until homogenous (6.4 litres of water per bag); use an electric mixer at a low rpm to prevent the formation of lumps. Let it sit for 2 minutes and remix. The mix will then be ready for use.

Placement of stoneware on porcelain stoneware, etc.

◆ **Applying the mixture:**
It is better to use a notched trowel, adjusting the size of the notches depending on the size of the pieces to lay.
You do not need to wet the pieces before laying them.
In difficult or outdoor applications, use the double-pasting technique. To adhere pieces larger than 30x30cm or weighing more than 40 kg/m2, use an appropriate metal anchor as well.
Use the tips of your fingers periodically to make sure that a skin has not formed on the surface. If a skin has formed, re-spread the adhesive with a notched trowel (never wet with water).
Always apply pressure to the tile to ensure that the cement "wets" minimum 80% of the reverse of the ceramic tiles.Tap on the pieces with a rubber mallet. Protect the freshly laid tiles from excessive heat, sub-zero temperatures, rain, etc. for at least 24 hours after their placement.

◆ **Sealing the joints:**
We recommend the use of a specific material like **FIXCOLOR** (fine or thick grain), **EURO-COLOR FLEX** or **IDEAL COLOR** or **CER-POXI** or **PROFESSIONAL PX**.
Use **SELLALASTIC** or **SILICONA NEUTRA** on the expansion joints.

Urgent office repairs

CONSUMPTION:		
Mosaic up to 5x5 cm:	3 mm notched trowel	approx.. 2.4 kg/m^2
Tile up to 15x15 cm:	6 mm notched trowel	approx.. 2.5-3.0 kg/m^2
Large-size tiles:	10 mm notched trowel	approx.. 4.0 kg/m^2

TECHNICAL SPECIFICATIONS	
STANDARDS:	EN-12.004
PRODUCT	
• Type:	C2 FT S1 Improved cementitious joint mortar with reduced slippage and additional characteristics:
• Powder density:	1.43 g/cm^3
• Toxicity:	irritant, avoid contact with eyes and skin
APPLICATION	
• Mixing water:	Grey: 6.4 litres / 25 kg bag
• Density of mixture:	1.51 g/cm^3
• Application temperature:	+ 5°C to + 35°C
• Open time:	10 min.
• Adjustment time:	10 min.
• Pot life:	20 min.
• Slippage:	< 0,5 mm.
• Thickness of layer:	< 10 mm.
• Sealing after:	90 minutes
• Ready after:	6 hours
FINAL PERFORMANCE:	
• Resistance to humidity:	excellent
• Resistance to aging:	excellent
• Resistance to solvents:	excellent
• Flexibility:	very good
• Adherence after 6 hr./24 hr./5 days:	$\geq$ 0.5 / $\geq$ 1.0 / $\geq$ 1.5N/mm^2
• Adherence after immersion in water:	$\geq$ 1.0 N/mm^2
• Adherence after heat aging:	$\geq$ 1.0 N/mm^2
• Adherence after freezing/thawing cycles:	$\geq$ 1.0 N/mm^2
• Open time: adherence (10 min):	$\geq$ 0.5 N/mm^2
• Transverse deformation EN 12002:	$\geq$ 2.5 mm
STORAGE	
• In covered, dry, ventilated areas:	12 months
PRESENTATION	
• Supplied in:	25 kg bags in grey colour

FIXSET GEL

Cement glue with GEL texture and with a high degree of plasticity suitable for the gluing and sealing of glass mosaic in swimming pools and laying of porcelain tiles in indoor and outdoor paving.

WARNING

FIXSET GEL should not be used:

- For supports subject to EXTREME vibrations or flexions (use **FIXACER** + **ADIFLEX**)
- For wood, metal surfaces, etc. (use **ELASTICER**)
- APPLYING WITH STROKES The glue cement should be applied with a toothed trowel or completely filling in the pieces.

FIELDS OF APPLICATION

- Is ideal for the **gluing and sealing** of glass mosaics in **swimming pools**.
- Suitable for the laying of porcelain tiles on supports of mortar, in indoor and outdoor paving.
- Suitable for the gluing of tiles, stoneware, mosaics, terracotta,... and interior bonding of porcelain tiles, and it is even more resistant to humidity than **FIXACER**: installation of tiles in bathrooms, shower areas, etc.
- **FIXSET GEL** is suitable for sticking low absorption tiles in bathrooms, kitchens...
- Installing ceramic red or white paste tiles, ceramic mosaic, stoneware, etc. on supports of gypsum, anhydrite, gypsum board and gypsum-based surfaces on interior walls, waterproof plasterboard, etc.
- **FIXSET GEL** is a thin layered cement that is applicable in layers ranging from 3 to 10mm.
- Perfect adhesion on **RECRECEM PRE-MIX** bases, or **FIX-REVOCO, FIX-NIVEL, HIDROFIX, IMPERTOT,...**

TECHNICAL CHARACTERISTICS

FIXSET GEL is a studied mixture of cements, selected arids, organic additives and inorganic resins that provide it with a special resistance to humidity. **FIXSET GEL** is very easy and pleasing to use thanks to its viscosity. Non drip cement glue.

APPLICATION:

- **Base:**
  All of the bases shall always be resistant, solid, free of dust, paint, wax, oil and fats and shall be perfectly hardened.

  Very absorbent bases or those that are exposed to the sun during the summer shall be previously dampened in order to avoid the quick loss of the mixtures' water.

- **Preparation of the mixture:**
  Mix approximately 7.25 litres of water with 25 kg of **FIXSET GEL**; use an electric mixer at low speed in order to avoid the creation of lumps.

- **Application of the mixture:**
  - Employ preferably a jagged trowel whose teeth-size is in relation to the piece to be applied.
  - It is not necessary to dampen the tiles before placing them.
  - Always apply pressure to the tile to ensure that the cement "wets" minimum 80% of the reverse of the ceramic tiles.

Tap on the pieces with a rubber mallet. the tiles in order to ensure a secure grasp.

- Protect the newly tiled floor from excessive heat, freezing, rain,... during the first 24 hours after their instalment, at least.

◆ **Sealing of the joints:**

We recommend the use of **FIXSET GEL** or a specific material such as **FIXCOLOR** (fine or thick grained) or **EUROCOLOR FLEX** or **IDEAL COLOR** or **CERPOXI** or **PROFESSIONAL PX**.

In the expansion joints, apply a specific, elastic material, such as **SELLALASTIC** or **SILICONA NEUTRA**.

CONSUMPTION:		
Mosaic of up to 5 x 5 cm:	3 mm toothed trowel.	approx. 2.4 Kg./m^2
Floor tiles of up to 15 x 15 cm:	6 mm toothed trowel.	approx. 2.5-3.0 Kg./m^2
Large sized floor tiles:	10 mm toothed trowel.	approx. 4.0 Kg./m^2
Gluing and sealing of glass mosaic:		
Glass mosaic of up to 5 x 5 cm:	3 mm toothed trowel.	approx. 3.4 Kg./m^2

TECHNICAL DATA

DIRECTIVES	EN 12.004
PRODUCT	
• Type:	C2 TE Enhanced setting cementitious adhesive with additional characteristics and reduced slip for bonding of porcelain tiles and glass mosaics.
• Density in powder:	1.24 g/cm^3
• Toxicity:	irritant, avoid contact with skin and eyes
APPLICATION	
• Mixing water:	7.25 litres per 25-kg sack.
• Density of the mixture:	1.75 g/cm^3
• Temperature of application:	+ 5°C to + 35°C
• Open time:	30 min.
• Waiting time:	30 min.
• Useful life:	1 hour
• Slip:	< 0.5 mm.
• Thickness of layer:	< 10 mm.
• Grouting after:	24 hours
• Can be walked on after:	48 hours
PERFORMANCE PROPERTIES	
• Resistance to damp:	excellent
• Resistance to ageing:	excellent
• Resistance to solvents:	excellent
• Flexibility:	excellent
• Initial adhesion:	$\geq$ 1.0 N/mm^2
• Adhesion after immersion in water:	$\geq$ 1.0 N/mm^2
• Adhesion after ageing through heat:	$\geq$ 1.0 N/mm^2
• Adhesion after freezing-thawing cycles:	$\geq$ 1.0 N/mm^2
• Pot life: adhesion (30 min):	$\geq$ 0.5 N/mm^2
STORING	
• In covered, dry, ventilated places:	12 months
PRESENTATION	
• Supplied in:	25-kg sacks in grey and white color.

TECNOCOL GEL

Single component, flexible, with GEL texture, MAXIMUM ADHERENCE glue-cement for sticking porcelain tiles onto HIDROELASTIC or LAMINA PROOF waterproofing in swimming pools.

WARNING

TECNOCOL GEL should not be used:

- On NORMAL plaster or plasterboard walls without previously priming with **HIDROPRIMER**.
- On supports subject to vibrations or external flexions (use **ELASTICER**).
- Outside the range of permitted temperatures.
- For sticking plaques onto other kinds of waterproofing without previously consulting the Technical Dept.
- Adulterating the original formula in any way.
- In hot periods outside without double gluing.

FIELDS OF APPLICATION

- **TECNOCOL GEL** is specially formulated to MEET THE REGULATIONS for sticking plaques of tiles or porcelain tiles in SWIMMING POOLS directly onto **LAMINA PROOF** or **HIDROELASTIC** waterproofing.
- Suitable for tiling "**Silestone**" (only in interiors, without central heating, without hot water pipes and in a thin layer).
- Delicate placing of ceramic tiles that are **NOT AT ALL ABSORBENT** on **NON-ABSORBENT** ceramic.
- It is also recommended for sticking on mud tiles (terracotta), as it **prevents the appearance of efflorescence phenomena**.
- For placing natural stones, slate, marble, granite, large formats, etc.
- Suitable for **SUPERIMPOSITIONS**: porcelain tiles on terrazzo, tiles on tiles, earthenware on earthenware, marble on tiles, etc. on clean, grease-free supports (use **FIX-SABÓ**).
- For installing stoneware or porcelain tiles directly onto waterproofed plasterboard, or installation of stoneware or porcelain tiles on NORMAL plaster or plasterboard having primed it with **HIDROPRIMER**.

TECHNICAL CHARACTERISTICS

TECNOCOL GEL is a single component glue-cement formula based on white or grey cement, finely granulated and selected sands and special additives.

TECNOCOL GEL contains a high percentage of polymer resins that give the product excellent ADHERENCE, FLEXIBILITY and IMPERMEABLENESS for waterproofing swimming pools.

TECNOCOL GEL is a cement that is easy to work with, using a toothed trowel, thanks to its thixotropy and increased open time.

HOW TO USE

- **Support:**
  All supports must be resistant, solid, free of dust, paint, waxes, oils and grease and must be perfectly set.
  Very absorbent supports or ones exposed to the sun during hot periods may be previously dampened to prevent the rapid loss of the mixing water.

- **Preparation of the mixture:**
  Mix with clean water until it is thoroughly mixed (8.0 litres of water per sack; use an electric mixer at low revolutions to prevent lumps from forming. Leave to stand for 2 minutes and re-mix so that the paste is ready to use.

- **Application of the mix:**
  It is best to use a toothed trowel, with the size of the teeth depending on the size of the piece to be applied.
  The pieces need not be dampened before installing.
  For difficult applications, exteriors or for pieces larger than 30 x 30 cm, or more

than 40 kg/m2, use the double gluing technique and similar metal anchorage. Make sure, at all times, that a surface layer does not appear, using the tips of your fingers. If it does form, prepare the cement again with a toothed trowel (do not dampen with water). Always apply pressure to the tile to ensure that the cement "wets" minimum 80% of the reverse of the ceramic tiles. Tap on the pieces with a rubber mallet. Protect recently laid floor tiles from excessive heat, rain, etc. for at least 24 hours.

◆ **Sealing joints:**
We recommend using specific material such as **FIXCOLOR** (fine or thick grain), or **EUROCOLOR FLEX** or **IDEAL COLOR** or **CERPOXI or PROFESSIONAL PX**.
Use **SELLALASTIC** or **SILICONA NEUTRA** in expansion joints.

CONSUMPTIONS:		
Mosaics up to 5 x 5 cm:	3 mm toothed trowel	Approx. 2.4 kg/m^2
Tiles up to 15 x 15 cm:	6 mm toothed trowel	Approx. 2.5-3.0 kg/m^2
Large format tiles:	10 mm toothed trowel	Approx. 4.0 kg/m^2
Gluing and sealing of glass mosaic onto HIDROELASTIC waterproofing:		
Glass mosaic up to 5 x 5 cm:	3 mm toothed trowel	Approx. 3.4 kg/m^2

TECHNICAL DATA	
DIRECTIVES	EN-12.004
PRODUCT	
• Type:	C2 TE S1 Improved normal-setting cementious adhesive with additional characteristics and reduced slipping.
• Density in powder:	1.2 g/cm^3
• Toxicity:	Irritant, avoid contact with skin and eyes.
APPLICATION	
• Proportion of mixture:	8.0 litres / 25-kg sack
• Density of the mixture:	1.6 g/cm^3
• Temperature of the application:	+5°C to +35°C
• Open time:	30 min
• Adjustment time:	30 min
• Useful life:	1 hour
• Slip:	< 0.5 mm
• Thickness of layer:	< 10 mm
• Can be pointed after:	24 hours
• Can be walked on after:	48 hours
PERFORMANCE PROPERTIES	
• Resistance to damp:	excellent
• Resistance to ageing:	excellent
• Resistance to solvents:	excellent
• Flexibility:	very good
• Initial adherence:	≥ 1.0 N/mm^2
• Adherence after immersion in water:	≥ 1.0 N/mm^2
• Adherence after ageing with heat:	≥ 1.0 N/mm^2
• Adherence after freeze-thaw cycles:	≥ 1.0 N/mm^2
• Open time: adherence (30 min):	≥ 0.5 N/mm^2
• Deformability:	≥ 2.5 mm
STORAGE	
• In covered, ventilated areas, stored in its original container, kept well closed, for	12 months
PRESENTATION	
• Supplied in:	25-kg sacks in Grey and White

TRIPLE F GEL

FABULOUS, FUNCTIONAL, FIXCER

For WATERPROOFING, TILING and GROUTING. The definitive product: the easiest, waste-free, straightforward, with GEL texture and there's no need to overstock. THREE-IN-ONE PRODUCT.

WARNING

TRIPLE F GEL must not be used:

- On substrates made of metal, plastic, PVC, rubber, unseasoned (green) wood, etc. (use **ELASTICER**).
- To attach tiles with a high coefficient of thermal expansion, such as Silestone (consult Engineering Dept.)
- Outside of the permitted temperature range.
- To lay or hang ceramic tiles over other waterproofing products without first consulting the Engineering Dept.
- If the original formula has been adulterated in any way.
- On outdoor surfaces during periods of heat without double bonding.

FIELDS OF APPLICATION

- **TRIPLE F GEL** is specifically formulated to COMPLY FULLY WITH STANDARDS EN-14.891, EN 1504-2, EN-12.004 and EN-13.888, allowing its use, respectively, as:
  - -**waterproofing agent**
  - -**adhesive** cement
  - -**grout** waterproof
- The ideal THREE-IN-ONE product for **waterproofing**, **tiling** and **grouting** preventing losses, waste, dosage errors, mistakes, reduced productivity, etc.
- Ideal for waterproofing, attaching and grouting ceramic and glass mosaic tiles in swimming pools with traditional chlorination, bathrooms, changing rooms, saunas, kitchens, etc.
- Ideal for **waterproofing** and **attaching** ceramic, natural stone and mosaic tiles, among others, in bathrooms, changing rooms, on pool surrounds, terraces, balconies, in hotels, etc.
- Its extreme flexibility allows it to be used in places subject to vibrations, such as supermarkets, factories, airports, high-traffic areas, schools and hospitals.
- Because of its TRIPLE function and its qualities of waterproofing-adhesion-flexibility, it is ideal for substrates made of plaster, gypsum, plasterboard, mortar, concrete, precast concrete panels, fibre cement,... underfloor heating systems,... overtiling,... mortar substrates, etc.

TECHNICAL SPECIFICATIONS

TRIPLE F GEL is a NEW CONCEPT in building. Its technical properties set it apart as the simplest and most complete solution for waterproofing, attaching ceramic tiles and grouting.

Other **TRIPLE F GEL** features:

- -**GEL** texture; it is cream-like, smooth and easy-to-apply product
- -the white colour is a bright white colour
- -adjustable amount of water for mixing depending on the desired application
- -high thixotropy; it will not come unstuck
- -**extended open time**
- -longer time for tile adjustment
- -maximum adhesion to difficult substrates

DIRECTIONS FOR USE

- **Substrate preparation:**
  All substrates must be strong, solid; free of dust, paint, wax, oils and grease; and they must not be subject to hydraulic shrinkage.
  Plaster, plasterboard or derivative substrates must have a moisture content less than 0.5% and must be free of dust and signs of efflorescence.
- **Preparing the mixture:**
  mix each 25-kg bag with 7.5 litres of clean water until smooth; use an electric mixer on a low rpm setting to prevent lump formation.
- **Applying the mixture:**
  As a waterproofing agent: preferably use a flat metal trowel, short-pile roller or a paintbrush. Apply a first uniform coat; leave to dry for 4 hours (at 23°C and 50%RH); apply a second coat perpendicular to the first and leave to dry for 4-24 hours, depending on the ambient temperature.

As an adhesive cement: preferably use a square-notched trowel, with the notch size proportionate to the size of the tile. Attach the tile by pressing sufficiently in order to ensure 80% minimum contact with the adhesive. For outdoor applications, use the double-bonding method. For attaching tiles larger than 30x30cm, or weighing more than 40 kg/m^2, also use a corresponding metal fastener. Ensure that no surface layer is formed by checking with your fingertips. In case one forms, trowel again (never remoisten with water). Use a rubber mallet to set the tiles into the adhesive. Protect recently tiled floors or paving from excessive heat, frost, rain, etc. for at least 24 hours after laying.

As grout: completely fill all the joints using a **FIX-ESPÁTULA** trowel, applying sufficient pressure to fill any spaces and gradually remove the excess grout with the same trowel. Wait 30-45 minutes after applying the grout to clean the surface of the joints and tiles using a lightly moistened sponge.

◆ **Sealing movement joints:**
For movement joints, apply **SELLALASTIC** or **SILICONA NEUTRA**.

APPLICATION DOSAGE:	
For waterproofing:	approx. 2.5 kg/m^2
For attaching ceramic tiles:	approx. 3.5-5 kg/m^2
For attaching glass mosaic tiles:	approx. 2.0 kg/m^2
For grouting glass mosaic tiles:	approx. 1.5 kg/m^2

TECHNICAL INFORMATION

PRODUCT DENSITY IN POWDER FORM: 1.07 g/cm^3
APPLICATION TEMPERATURE: +5°C - +35°C
STORAGE: 12 months in protected and covered place.
FORMAT: White and Grey colour 25-kg bags

TECHNICAL SPECIFICATIONS

DIRECTIVES: EN-14.891; polymer-modified cement mortar (CMP); waterproof cement membrane formulated with polymers. Resistant to freezing/thawing cycles and to contact with chlorinated water and limewater.

- Proportion of mix: 8.5 litres / 25-kg bag
- Initial adhesion: $\geq$ 0.5 N/mm^2
- Adhesion after immersion in water: $\geq$ 0.5 N/mm^2
- Adhesion after ageing with heat: $\geq$ 0.5 N/mm^2
- Waterproofing: no penetration (1,5bar constant pressure/7 days)
- Resistance to cracking: $\geq$ 0.75 mm
- Adhesion after freezing/thawing cycles: $\geq$ 0.5 N/mm^2
- Adhesion after immersion in chlorinated water: $\geq$ 0.5 N/mm^2

DIRECTIVES: EN-1504-2(C) - MC-IR waterproof membrane for the surface protection of concrete

- Capillary absorption and waterproofing: $\mu < 0.1$ kg/m^2·h$^{0.5}$
- Water vapour permeability: Class I
- Adhesion strength pull-off test: Flexible system
- No traffic loads: >0.8 N/mm^2
- Release of dangerous substances: Complies with 5.3

DIRECTIVES: EN-12004 - C2 TE S1; improved normal setting deformable adhesive cement with extended open time and reduced slip. High flexibility.

- Proportion of mix: 6.6-7.1 litres / 25-kg bag
- Open time, adjusting time and pot life: **30 min**; 40 min; 1 hour
- Slip and max. layer thickness: < 0.5 mm; < 10 mm
- Grout after 24 hours and set after: 48 hours
- AInitial adhesion: $\geq$ 1.0 N/mm^2
- Adhesion after immersion in water: $\geq$ 1.0 N/mm^2
- Adhesion after ageing with heat: $\geq$ 1.0 N/mm^2
- Adhesion after freezing/thawing cycles: $\geq$ 1.0 N/mm^2
- Open time: adhesion (30 min): $\geq$ 0.5 N/mm^2
- Transverse deformation: $\geq$ 2.5 mm

DIRECTIVES: EN-13.888 - CG2 W A; enhanced cement-based grouting (fulfilling additional properties): reduced water absorption property and highly abrasion-resistant.

- Proportion of mix: 6.6-7.1 litres / 25-kg bag
- Resistance to acids/alkali: poor
- Resistance to abrasion: $\leq$ 1000 mm^3
- Bending strength-dry storage: $\geq$ 2.5 N/mm^2
- Bending strength-freezing/thawing cycles: $\geq$ 2.5 N/mm^2
- Compressive strength-dry storage: $\geq$ 15 N/mm^2
- Compressive strength-freezing/thawing cycles: $\geq$ 15 N/mm^2
- Shrinkage: $\leq$ 3 mm/m
- Water absorption after 30 min: $\leq$ 2 g
- Water absorption after 240 min: $\leq$ 5 g

TRIPLE F GEL: three-in-one product.

FIXCER

MORTARS FOR BASES AND RENDERS

FIX-REVOCO

Pre-mixed mortar for rendering walls. A mortar with CONSTANT QUALITY, when the application requires safety and durability.

WARNING

With **FIX-REVOCO** you should not:

- Adulterate its composition. You must only add water.
- By adding more water than indicated, you will substantially increase the drying time, and weaken the properties of the product.
- Do not use **FIX-REVOCO** for uses other than those indicated in this document.
- **FIX-REVOCO** is not an adhesive mortar: it is not suitable for sticking on tiles.

FIELDS OF APPLICATION

- **FIX-REVOCO** is a mortar with a CONSTANT formula. It does not contain clay, it does not contain ash, it does not contain expansive sands, etc. It is conceived for **important applications** in which the durability of the installation starts with additional layers of mortar.
- With **FIX-REVOCO** you can render up to **25 mm in one go.**
- With F**IX-REVOCO** you can:
  - render walls and floors, **hard to the touch after 12 hours.**
  - place **tiles on the rendering after 24 hours.**
  - completely dry rendering **at 3 days**, therefore suitable for installing natural stone, parquet, linoleum, carpets, etc.
  - **avoid mistakes** of dosage in the work: it is a pre-dosed product.
  - have a mortar prepared with high quality sand, with granulometric exactness.
  - save time in preparing the mortar: you only need add water.
  - guarantee a perfect support for **technical installations:** swimming pools, industry, supermarkets, airports, etc.
- Render **without contraction**, with normal working time and fast drying time.
- Carry out **urgent** repairs in areas with traffic: restaurants, shops, corridors, etc.
- Suitable for indoor and outdoor use.
- **FIX-REVOCO** has a granulometry specifically for rendering walls, although it can also be used on floors. In this case, an initial grouting should be done before the base is laid to make the union between the two solid.

TECHNICAL SPECIFICATIONS

FIX-REVOCO is an ingenious mixture of sands, hydraulic cement and specific additives that offer a pre-mixed mortar able to set normally but dry quickly, and which is hard to the touch after 12 hours; suitable for installing tiles after 24 hours and ideal for installing parquet or carpets after 72 hours. With **FIX-REVOCO**, in just 3 days you obtain a level of dryness greater than you would get after 28 days: **REAL residual damp lower than 3%.**

APPLICATION

- **Support:**
  - With **FIX-REVOCO**, you can render with mortar on brick, concrete and mortar walls and blocks of concrete, etc.
  - These supports will be in good condition, without chips, cracks, dust, products for removing planking, etc.
  - **ALWAYS** check the absorption of the support in the following way:
    1st.- wet a little piece with a brush.

2nd.- immediately pass your hand over the wall and decide which of the two following options should be taken:
- your hand is dry: this means that the support is absorbent, therefore you should wet it before applying **FIX-REVOCO**.
- your hand is damp: this means that the support is not absorbent, therefore, in this case, it will be best not to wet the support before applying **FIX-REVOCO**

◆ **Making the mortar:**

The mixture should always be made with an automatic pump, in a mixer, cement mixer, etc.

Add the **FIX-REVOCO** to the cement mixer with the water necessary to obtain a mortar with a plastic consistency, pleasant to the touch.

The recommended water is 16% of the weight of the **FIX-REVOCO**, in other words 4.0 litres of water for every 25-kg sack. Mix for 4 or 5 minutes.

◆ **Application of the mixture:**

It is VERY IMPORTANT to apply a first coat of mortar with the fine part of the trowel. Immediately afterwards, you may apply the required thickness of mortar.
Once you have filled in the space between two master walls, screed the wall.

The mortar can be levelled, screed and smoothed like any other mortar. It is a mortar that is very easy and simple to work with.

◆ **Comments to bear in mind:**

- It is essential to always make expansion joints, respecting the structural joints and making perimeter joints and joints at pillars. (Consult Technical Department)
- In swimming pools, when the absorption of the concrete is not very well defined, it is a good idea to apply a coat of cement grouting first. This grouting could be done using 1 part of **PRIMFIX** with 1 part of Portland cement. The **FIX-REVOCO** should be applied "fresh on fresh".

CONSUMPTION:	
FIX-REVOCO:	15-18 kg./m^2 per cm. of thickness (always depending on the compacting achieved)
For grouting layer:	Portland: 0.2 kg./m^2 PRIMFIX: 0.2 lt./m^2

DRYING TIMES AND RESIDUAL DAMP:			
	24 hrs.	48 hrs.	7 days
20°C and 60% Damp	5.1	2.8	1.8
	(results in % of residual humidity in weight, measured with calcium carbide hygrometer. A carbide hygrometer is more reliable than an electrical conductivity hygrometer as the results are comparable under any circumstances)		

TECHNICAL DATA	
DIRECTIVES	EN 998-1
PRODUCT	
• Type:	GP - CS IV - W2 waterproofed Pre-mixed mortar for building works: 1st.part: hydraulic mortar useful for renders and plasters uses.
• Density in powder:	1.6 g/cm^3
• Toxicity:	irritant, avoid contact with skin and eyes
APPLICATION:	
• Mixing water:	4.0 litres per 25-kg sack.
• Density of the mixture:	1.8 g/cm^3 (not compacted)
• Temperature of application:	+ 5°C to + 35°C
• Pot life:	60 minutes
• Slip:	< 0.5 mm.
• Thickness of layer:	< 25 mm.
• Can be walked on after:	12 hours
PERFORMANCE PROPERTIES	
• Resistance to damp:	excellent
• Resistance to ageing:	excellent
• Resistance to solvents:	excellent
• Resistance to acids/alkalis:	poor
• Range of temperatures:	from -30°C to +90°C
• Thermal conductivity (+21°C;45%):	1.3 W/m*K (EN 12667)
• Capillarity absorption:	c=0.1 Kg/m^2 $min^{0.5}$ <0.2 => w2 group
• Permeability to steam:	μ =8.3
• Adhesion:	1.1 N/mm^2 and crack type A over concrete
• Resistance to compression:	$\geq$ 6.0 N/mm^2
• Fire resistance:	A 1
STORING	
• In covered, dry, ventilated places:	12 months
PRESENTATION	
• Supplied in:	25-kg sacks in grey color.

FIX-REVOCO PROJECTABLE

Pre-mixed PROJECTABLE mortar for rendering walls. A mortar with CONSTANT QUALITY, when the application requires safety and durability.

WARNING

With **FIX-REVOCO PROJECTABLE** you should not:

- Adulterate its composition. You must only add water.
- By adding more water than indicated, you will substantially increase the drying time, and weaken the properties of the product.
- Do not use **FIX-REVOCO PROJECTABLE** for uses other than those indicated in this document.
- **FIX-REVOCO PROJECTABLE** is not an adhesive mortar: it is not suitable for sticking on tiles.

FIELDS OF APPLICATION

- **FIX-REVOCO PROJECTABLE** is a mortar with a CONSTANT formula. It does not contain clay, it does not contain ash, it does not contain expansive sands, etc. It is conceived for **important applications** in which the durability of the installation starts with additional layers of mortar.
- With **FIX-REVOCO PROYECTALE** you can render up to **25 mm in one go.**
- With F**IX-REVOCO PROJECTABLE** you can:
  - render walls, **hard to the touch after 12 hours.**
  - place **tiles on the rendering after 24 hours.**
  - completely dry rendering **at 3 days**, therefore suitable for installing natural stone, parquet, linoleum, carpets, etc.
  - **avoid mistakes** of dosage in the work: it is a pre-dosed product.
  - have a mortar prepared with high **quality sand**, with granulometric exactness.
  - save time in preparing the mortar: you only need add water.
  - guarantee a perfect support for **technical installations:** swimming pools, industry, supermarkets, airports, etc.
- Render **without contraction**, with normal working time and fast drying time.
- Carry out **urgent** repairs in areas with traffic: restaurants, shops, corridors, etc.
- Suitable for indoor and outdoor use.
- **FIX-REVOCO PROJECTABLE** has a granulometry specifically for rendering walls, although it can also be used on floors. In this case, an initial grouting should be done before the base is laid to make the union between the two solid.

TECHNICAL SPECIFICATIONS

FIX-REVOCO PROJECTABLE is an ingenious mixture of sands, hydraulic cement and specific additives that offer a pre-mixed projectable mortar able to set normally but dry quickly, and which is hard to the touch after 12 hours; suitable for installing tiles after 24 hours and ideal for installing parquet or carpets after 72 hours.

APPLICATION

- **Support:**
  - With **FIX-REVOCO PROJECTABLE**, you can render with mortar on brick, concrete and mortar walls and blocks of concrete, etc.
  - These supports will be in good condition, without chips, cracks, dust, products for removing planking, etc.
  - **ALWAYS** check the absorption of the support in the following way:
    1st.- wet a little piece with a brush.

2nd.- immediately pass your hand over the wall and decide which of the two following options should be taken:
- your hand is dry: this means that the support is absorbent, therefore you should wet it before applying **FIX-REVOCO PROJECTABLE** .
- your hand is damp: this means that the support is not absorbent, therefore, in this case, it will be best not to wet the support before applying **FIX-REVOCO PROJECTABLE.**

◆ **Making the mortar:**
The mixture should always be made with an automatic pump, in a mixer, cement mixer, etc.

Add the **FIX-REVOCO PROJECTABLE** to the mixer with the water necessary to obtain a mortar with a plastic consistency, pleasant to the touch.

The recommended water is 17% of the weight of the **FIX-REVOCO PROJECTABLE**, in other words 4,25 litres of water for every 25-kg sack. Mix for 4 or 5 minutes.

◆ **Projection of the mixture:**
Use an appropriate and specific machine for the projection of gross granulometry mortars.
Pour the product into the receiving hopper and PROJECT the product using a nozzle 10mm and an air pressure of 2.5Bar minimum. Next, regulate between master walls.

◆ **Comments to bear in mind:**
- It is essential to always make expansion joints, respecting the structural joints and making perimeter joints and joints at pillars. (Consult Technical Department)
- In swimming pools, when the absorption of the concrete is not very well defined, it is a good idea to apply a coat of cement grouting first. This grouting could be done using 1 part of **PRIMFIX** with 1 part of Portland cement. The **FIX-REVOCO PROJECTABLE** should be applied "fresh on fresh".

CONSUMPTION:	
FIX-REVOCO PROJECTABLE:	15-18 kg./m^2 per cm. of thickness (always depending on the compacting achieved)
For grouting layer:	Portland: 0.4 kg./m^2 PRIMFIX: 0.2 lt./m^2 + 0,2 Kgs. of cement

TECHNICAL DATA	
DIRECTIVES	EN 998-1
PRODUCT	
• Type:	GP - CS IV - W2 waterproofed Pre-mixed mortar for building works: 1st.part: hydraulic mortar useful for renders and plasters uses.
• Density in powder:	1.53 g/cm^3
• Toxicity:	irritant, avoid contact with skin and eyes
APPLICATION:	
• Mixing water:	4.25 litres per 25-kg sack.
• Density of the mixture:	1.86 g/cm^3 (not compacted)
• Temperature of application:	+ 5°C to + 35°C
• Pot life:	60 minutes
• Slip:	< 0.5 mm.
• Thickness of layer:	< 25 mm.
• Can be walked on after:	12 hours
PERFORMANCE PROPERTIES	
• Resistance to damp:	excellent
• Resistance to ageing:	excellent
• Resistance to acids/alkalis:	poor
•Thermal conductivity (+21°C;45%):	1.3 W/m*K (EN 12667)
• Range of temperatures:	from -30°C to +90°C
• Capillarity absorption:	c=0.1 Kg/m^2 $min^{0.5}$ <0.2 => w2 group
• Permeability to steam:	μ =12
• Adhesion:	0.8 N/mm^2 and crack type B over concrete
• Resistance to compression:	$\geq$ 6.0 N/mm^2
• Fire resistance:	A 1
STORING	
• In covered, dry, ventilated places:	12 months
PRESENTATION	
• Supplied in:	25-kg bags.

According to the projecting machine that we use, we will have to mix it previously with just water.

Next, pour the mortar already mixed with the water in the hopper of the projecting machine and ...

.... start the mortar projection in a way constant and uniform.

PAVIFORT

Pre-mixed mortar with a normal setting time and fast drying time: enables tiles to be positioned after 24 hours.

WARNING

- Do not apply on swimming pools.(use **RECRECEM PRE-MIX**)
- **PAVIFORT** must only be mixed with water. Do not adulterate its composition.
- By adding more water than indicated, you will substantially increase the drying time, and weaken the properties of the product.
- **PAVIFORT** is not an adhesive mortar: it is not suitable for sticking on tiles.

FIELDS OF APPLICATION

- With **PAVIFORT** you will be able to:
  - make bases that can be **used for transit after 12 hours**.
  - position **tiles after 24 hours**.
  - achieve bases that are perfectly **dry after 3 days**, and therefore suitable for applying natural stone, parquet, linoleum, carpets, etc.
  - **avoid mistakes** of dosage in the work: it is a pre-dosed product.
  - have a mortar prepared with high quality sand, with granulometric exactness.
  - save time in preparing the mortar: you only need add water.
  - guarantee a perfect support for **technical installations**: industry, supermarkets, airports, etc.
- Carry out extra layers without contraction with a normal working time and fast drying time.
- **Urgent** repairs in areas with traffic: restaurants, shops, corridors, etc.
- Suitable for indoor and outdoor use. Suitable for making floating floors or ones adhered to a support.
- Suitable for making bases with radiant heating.

TECHNICAL SPECIFICATIONS

PAVIFORT is a new formula of sand, gravel, hydraulic cement and specific additives that offer a pre-mixed mortar able to set normally but dry fast, meaning it can be walked on after 12 hours. suitable for installing tiles after 24 hours and ideal for installing parquet or carpets after 72 hours. With **PAVIFORT**, in just 3 days you obtain a level of dryness greater than you would get after 28 days: **REAL residual damp lower than 3%**.

APPLICATION

- **Support:**
  - You can make bases of **PAVIFORT** on any support: old ceramics, wrought iron, mortar, concrete, etc.
  - These supports should be in good condition, without chips, cracks, dust, oils, etc.

ATTENTION: in all cases you must distinguish between:

- bases with a thickness of **less than 4 cm**: make a base adhered to the support
- bases with a thickness of **MORE than 4 cm**: Make a floating base on the support

- **Bases with a thickness of less than 4 cm**: Use an adhesive layer of **grouting** before making the base, to achieve a perfect union with the support.

  Mix 1 part of **PRIMFIX** with 1 part of the Portland cement (25 litres of **PRIMFIX** with 1 x 25 kg sack of Portland). Use an electric mixer. It can easily be applied with a wide brush.

  Attention: in all cases, you should spread the **PAVIFORT** mortar on the adhesive layer of grouting while it is **still fresh**.

- **Bases with a thickness of MORE than 4 cm:**

  In this case, you will make a base that is separated from the support, separating it with a film of polythene. This film will avoid all possibility of dampness coming up through capillary action. Pour the **PAVIFORT** mortar over this film.

◆ **Making the mortar:**
The mixture may be done with an automatic pump, in a mixer, cement mixer, etc.

Add, for example, to the cement mixer, the **PAVIFORT** and the water necessary so that the resulting mortar has the consistency of "damp sand". At this point, do not add any more water.

The recommended water is 11% of the weight of the **PAVIFORT**, in other words, 2.6 litres of water for every 25-kg sack. Mix for 4 or 5 minutes.

◆ **Application of the mixture:**
Pour the prepared **PAVIFORT** directly onto the adhesive layer of grouting while still damp or on to the film of polythene.

Level, screed and smooth the mortar as if it were a normal Portland mortar. It is a mortar that is very easy and simple to work with. The best finish will be achieved by using a "helicopter" as it will leave the surface completely closed.

◆ **Comments to bear in mind:**
- It is essential to always make expansion joints, respecting the structural joints and making perimeter joints and joints at pillars. (use **SELLALASTIC, SILICONA NEUTRA** or **SELLAFIX**)
- When the extension to be done is carried out in phases, you can ensure the perfect continuity between phases by use of primers or by adding mesh between the previous phase and the following one.

CONSUMPTION:	
For grouting layer:	Portland: 0.2 kg./m^2 **PRIMFIX**: 0.2 lt./m^2
PAVIFORT:	16-18 kg./m^2 per cm. of thickness (always depending on the compacting achieved)

TECHNICAL DATA	
DIRECTIVES	**EN 13813**
PRODUCT	
• Type:	CT-C24-F6- pre-mixed mortar with a normal setting time and fast drying time.
• Density in powder:	1.64 g/cm^3
• Sand ranging:	0 to 4 mm.
• Toxicity:	irritant, avoid contact with skin and eyes
APPLICATION	
• Mixing water:	2.6 litres per 25-kg sack.
• Density of the mixture:	2.0 g/cm^3
• Temperature of application:	+ 5°C to + 35°C
• Mixing time:	Mix for 4 or 5 minutes
• Pot life:	60 minutes maximum
• Thickness of layer:	10 mm. minimum
• Can be walked on after:	12 hours
• Position tiles after:	24 hours
• Position natural stone, parquet, linoleum, carpets after:	3 days
PERFORMANCE PROPERTIES	
• Resistance to damp:	excellent
• Resistance to ageing:	excellent
• Resistance to abrasion:	excellent
• Flexibility:	normal
• Thermal conductivity (+21°C;45%):	1.3 W/m*K (EN 12667)
• Resistance to flexion:	5.3 N/mm^2
• Resistance to compression:	24.1 N/mm^2
• Residual damp:	< 4.5 % 24 hours
(measured with a calcium carbide hygrometer + 20°C, 60% humidity)	< 3.0 % 48 hours < 2.1 % 7 days
STORING	
• In covered, dry, ventilated places	12 months
PRESENTATION	
• Supplied in:	25-kg sacks in grey color.

RECRECEM PRE-MIX

Pre-mixed mortar with a normal setting time and fast drying time: enables tiles to be positioned after 24 hours.

WARNING

- **RECRECEM PRE-MIX** must only be mixed with water. Do not adulterate its composition.
- By adding more water than indicated, you will substantially increase the drying time, and weaken the properties of the product.
- Do not use **RECRECEM PRE-MIX** to make bases with a thickness of less than 1 cm (use **FIX-NIVEL**) for uses other than those indicated in this document.
- **RECRECEM PRE-MIX** is not an adhesive mortar: it is not suitable for sticking on tiles.

FIELDS OF APPLICATION

- With **RECRECEM PRE-MIX** you will be able to:
  - make bases that can be **used for transit after 12 hours**.
  - position **tiles after 24 hours**.
  - achieve bases that are perfectly **dry after 3 days**, and therefore suitable for applying natural stone, parquet, linoleum, carpets, etc.
  - **avoid mistakes** of dosage in the work: it is a pre-dosed product.
  - have a mortar prepared with high quality sand, with granulometric exactness.
  - save time in preparing the mortar: you only need add water.
  - guarantee a perfect support for **technical installations**: swimming pools, industry, supermarkets, airports, etc.
- Carry out extra layers without contraction with a normal working time and fast drying time.
- **Urgent** repairs in areas with traffic: restaurants, shops, corridors, etc.
- Suitable for indoor and outdoor use. Suitable for making floating floors or ones adhered to a support.
- Suitable for making bases with radiant heating.

TECHNICAL SPECIFICATIONS

RECRECEM PRE-MIX is a new formula of sand, gravel, hydraulic cement and specific additives that offer a pre-mixed mortar able to set normally but dry fast, meaning it can be walked on after 12 hours. suitable for installing tiles after 24 hours and ideal for installing parquet or carpets after 72 hours. With **RECRECEM PRE-MIX**, in just 3 days you obtain a level of dryness greater than you would get after 28 days: **REAL residual damp lower than 3%**.

APPLICATION

- **Support:**
  - You can make bases of **RECRECEM PRE-MIX** on any support: old ceramics, wrought iron, mortar, concrete, etc.
  - These supports should be in good condition, without chips, cracks, dust, oils, etc.

ATTENTION: in all cases you must distinguish between:

- bases with a thickness of **less than 4 cm**: make a base adhered to the support
- bases with a thickness of **MORE than 4 cm**: Make a floating base on the support

- **Bases with a thickness of less than 4 cm**: Use an adhesive layer of **grouting** before making the base, to achieve a perfect union with the support.

  Mix 1 part of **PRIMFIX** with 1 part of the Portland cement (25 litres of **PRIMFIX** with 1 x 25 kg sack of Portland). Use an electric mixer. It can easily be applied with a wide brush.

  Attention: in all cases, you should spread the **RECRECEM PRE-MIX** mortar on the adhesive layer of grouting while it is **still fresh**.

- **Bases with a thickness of MORE than 4 cm:**

  In this case, you will make a base that is separated from the support, separating it with a film of polythene. This film will avoid all possibility of dampness coming up through capillary action. Pour the **RECRECEM PRE-MIX** mortar over this film.

◆ **Making the mortar:**
The mixture may be done with an automatic pump, in a mixer, cement mixer, etc.

Add, for example, to the cement mixer, the **RECRECEM PRE-MIX** and the water necessary so that the resulting mortar has the consistency of "damp sand". At this point, do not add any more water.

The recommended water is 11% of the weight of the **RECRECEM PRE-MIX**, in other words, 2.6 litres of water for every 25-kg sack. Mix for 4 or 5 minutes.

◆ **Application of the mixture:**
Pour the prepared **RECRECEM PRE-MIX** directly onto the adhesive layer of grouting while still damp or on to the film of polythene.

Level, screed and smooth the mortar as if it were a normal Portland mortar. It is a mortar that is very easy and simple to work with. The best finish will be achieved by using a "helicopter" as it will leave the surface completely closed.

◆ **Comments to bear in mind:**

- It is essential to always make expansion joints, respecting the structural joints and making perimeter joints and joints at pillars. (use **SELLALASTIC, SELLAFIX** or **SILICONA NEUTRA**)
- When the extension to be done is carried out in phases, you can ensure the perfect continuity between phases by use of primers or by adding mesh between the previous phase and the following one.
- For **swimming pools, you must ALWAYS** do the adhesive grouting layer whether or not the thickness of the base in greater than 4 cm.

CONSUMPTION:	
For grouting layer:	Portland: 0.2 kg./m^2 **PRIMFIX**: 0.2 lt./m^2
RECRECEM PRE-MIX:	18-20 kg./m^2 per cm. of thickness (always depending on the compacting achieved)

TECHNICAL DATA	
DIRECTIVES	**EN 13813**
PRODUCT	
• Type:	CT-C35-F8- pre-mixed mortar with a normal setting time and fast drying time.
• Density in powder:	1.64 g/cm^3
• Sand ranging:	0 to 4 mm.
• Toxicity:	irritant, avoid contact with skin and eyes
APPLICATION	
• Mixing water:	2.6 litres per 25-kg sack.
• Density of the mixture:	2.0 g/cm^3
• Temperature of application:	+ 5°C to + 35°C
• Mixing time:	Mix for 4 or 5 minutes
• Pot life:	60 minutes maximum
• Thickness of layer:	10 mm. minimum
• Can be walked on after:	12 hours
• Position tiles after:	24 hours
• Position natural stone, parquet, linoleum, carpets after:	3 days
PERFORMANCE PROPERTIES	
• Resistance to damp:	excellent
• Resistance to ageing:	excellent
• Resistance to solvents:	excellent
• Resistance to abrasion:	excellent
• Flexibility:	normal
• Thermal conductivity (+21°C;45%):	1.3 W/m*K (EN 12667)
• Resistance to flexion:	>8.0 N/mm^2
• Resistance to compression:	>35.0 N/mm^2
• Residual damp:	< 4.2 % 24 hours
(measured with a calcium carbide hygrometer + 20°C, 60% humidity)	< 2.7 % 48 hours < 1.8 % 7 days
STORING	
• In covered, dry, ventilated places	12 months
PRESENTATION	
• Supplied in:	25-kg sacks in grey color.

TECHMORTAR R60

Mortar with EXTRAORDINARY MECHANICAL RESISTANCES. Pre-mixed mortar with a normal setting time and fast drying for TECHNICAL SCREEDS with a huge mechanical requeriments.

WARNING

- **TECHMORTAR R60** must only be mixed with water. Do not adulterate its composition.
- By adding more water than indicated, you will substantially increase the drying time, and weaken the properties of the product.
- Do not use **TECHMORTAR R60** to make bases with a thickness of less than 1 cm.
- **TECHMORTAR R60** is not an adhesive mortar: it is not suitable for sticking on tiles.

FIELDS OF APPLICATION

- **UNIQUE** pre-dosed mortar in the market thanks to its exceptional mechanical properties for the realization of screeds with a **HUGE** technical requeriments.
- With **TECHMORTAR R60** we achieve a compressive strength superior to **60MPa!!!** in a short drying time.
- With **TECHMORTAR R60** you will be able to:
  - make bases that can be **used for transit after 12 hours;** position **tiles after 24 hours;** achieve bases that are perfectly **dry after 2 days**, and therefore suitable for applying natural stone, parquet, linoleum, carpets, etc.
  - have a mortar prepared with high quality sands, with granulometric exactness.
  - save time in preparing the mortar: you only need to add to the rotating mixer the water, the **ARENA 0/8mm**, and the **TECHMORTAR R60.**
  - guarantee a perfect support for **technical installations**: industries, supermarkets, airports, etc.
- Carry out extra layers without contraction with a normal working time and fast drying time.
- Suitable for making bases with radiant heating.
- Suitable for indoor and outdoor use. Suitable for making floating floors or ones adhered to a support.

TECHNICAL SPECIFICATIONS

TECHMORTAR R60 is a new formula of a BI-component technical mortar:
- part A: the sand and the gravel,
- part B: mixture with hydraulic cement and specifica additives that offer a pre-mixed mortar able to set normally but dry fast.

TECHMORTAR R60 can be mixed in rotating mixers or with truck mixers achiving an **EXCEPTIONAL** mortar
With **TECHMORTAR R60**, in just 2 days you obtain a level of dryness greater than you would get after 28 days: **REAL residual damp lower than 1%**.

APPLICATION

- **Support:**
  - You can make bases of **TECHMORTAR R60** on any support: old ceramics, wrought iron, mortar, concrete, etc.
  - These supports should be in good condition, without chips, cracks, dust, oils, etc.

ATTENTION: in all cases you must distinguish between:
- bases with a thickness of **less than 4 cm**: make a base adhered to the support
- bases with a thickness of **MORE than 4 cm**: Make a floating base on the support

- **Bases with a thickness of less than 4 cm on absorbant surfaces**:
  Use an adhesive layer of **grouting** before making the base, to achieve a perfect union with the support.

  Mix 1 part of **PRIMFIX** with 1 part of the Portland cement (25 litres of **PRIMFIX** with 1 x 25 kg sack of Portland). Use an electric mixer. It can easily be applied with a wide brush.
  Attention: in all cases, you should spread the **TECHMORTAR R60** mortar on the adhesive layer of grouting while it is **still fresh**.

- **Bases with a thickness of <u>less</u> than 4 cm on non absorbant surfaces**:
  Apply **BOND COAT** with a long hair roller and let to dry 3 hours before apply on it **TECHMORTAR R60**.
- **Bases with a thickness of <u>MORE</u> than 4 cm:** In this case, you will make a base that is separated from the support, separating it with a film of polythene. This film will avoid all possibility of dampness coming up through capillary action. Pour the **TECHMORTAR R60** mortar over this film.

- **Making the mortar:**
  The mixture may be done with an automatic pump, in a mixer, cement mixer, etc.

  Add, for example, to the 200 lts.rotating mixer:

  1 bag of **TECHMORTAR R60** +

  4 bags of **ARENA 0/8mm** pre-dosated + **10.5-11.0 lts** approx of **clean water.**

  The resulting mortar has the consistency of "damp sand". At this point, do not add any more water. Mix for 4 or 5 minutes.
- **Application of the mixture:**
  Pour the prepared **TECHMORTAR R60** directly onto the adhesive layer of grouting while still damp or on to the film of polythene.

  Level, screed and smooth the mortar as if it were a normal Portland mortar. It is a mortar that is very easy and simple to work with. The best finish will be achieved by using a "helicopter" as it will leave the surface completely closed.
- **Comments to bear in mind:**
  - It is essential to always make expansion joints, respecting the structural joints and making perimeter joints and joints at pillars. (use **BANDA IMPERMEABLE 120/70** and/or **FIX-TAPE 170mm** according to type of application.
  - When the extension to be done is carried out in phases, you can ensure the perfect continuity between phases by use of primers or by adding mesh between the previous phase and the following one.

CONSUMPTION:	
For grouting layer:	Portland: 0,2 Kg./m^2 **PRIMFIX:** 0,2 lt./m^2
TECHMORTAR R60 ARENA 0/8mm	3.1 Kg./m^2 per cm.of thickness 14.8 Kg./m^2 per cm.of thichness (always depending on the compacting achieved)

TECHNICAL DATA	
DIRECTIVES	**EN 13813**
PRODUCT	
• Type:	CT-C60-F10 pre-mixed mortar with a normal setting time and fast drying time.
• Density of the powder **TECHMORTAR R60**:	1.04 g/cm^3
• Toxicity:	irritant, avoid contact with skin and eyes
• Sand ranging and density of **ARENA 0/8mm**:	0 to 8 mm. / 1.64 g/cm3
APPLICATION	
• Mix:	1 bag **TECHMORTAR R60** + 4 bags **ARENA 0/8 mm** + 10.5-11.0 litres clean water
• Density of the mixture:	1.97 g/cm^3
• Temperature of application:	+ 5°C to + 35°C
• Mixing time:	Mix for 4 or 5 minutes
• Pot life:	60 minutes maximum
• Thickness of layer:	10 mm. minimum
• Can be walked on after:	12 hours
• Position tiles after:	24 hours
• Position natural stone, parquet, linoleum, carpets after:	2 days
PERFORMANCE PROPERTIES	
• Resistance to damp-ageing-abrasion:	excellent
• Thermal conductivity:	1.3 W/m*K (EN 12667)
• Resistance to flexion:	>10.0 N/mm^2
• Resistance to compression:	61.9 N/mm^2 = 619 Kgs/cm^2
• Residual damp:	< 1.2 % 24 hours
(measured with a calcium carbide hygrometer + 20°C, 60% humidity)	< 1.0 % 48 hours
STORING	
• In covered, dry, ventilated places	12 months
PRESENTATION: supplied in:	
• **TECHMORTAR R60**:	25-kg sacks
• **ARENA 0/8mm**:	30-kg sacks

Regularized with a level.

Mix: 1 bag of **TECHMORTAR R60** and 4 bags of **ARENA 0/8**.

FIXCER

REPAIRING, ANCHORING & SELF-LEVELLING MORTARS

ANTI-OXID LIQUID

Transparent viscous gel for protecting steel reinforcement.

WARNING

ANTI-OXID LIQUID should not be used:

- Without taking the basic precautions required for chemical products: rubber gloves and safety glasses.

Merely remove any rust encrustations before applying **ANTI-OXID LIQUID**

FIELDS OF APPLICATION

- Rust-resistant primer for protecting steel reinforcement.
- Can be used in marine environments or for chloride-contaminated concrete.
- **ANTI-OXID LIQUID** also acts as a bonding agent between the new concrete and the steel reinforcement because it reacts with the cement.
- It can be used on floors and walls, both INTERIOR and EXTERIOR, and in swimming pools.

TECHNICAL CHARACTERISTICS

ANTI-OXID LIQUID stabilises any rust that is present, protecting the surface from future corrosion. This protective method is technically defined as anodic passivation.

ANTI-OXID LIQUID is a clear additive with a viscous but highly fluid texture. Ready for use. No mixing required. Apply directly to the reinforcement steel.

ANTI-OXID LIQUID can be applied directly over the rust.

An essential preparatory step for any concrete repair.

DIRECTIONS FOR USE

- Remove any traces of any damaged, loose, crumbling or flaky concrete, etc. Also remove any dust, paint, waxes, release agents, etc.
- Remove the thickest rust encrustations. Brush and vacuum up the dust....
- Use a brush, roller or spray gun to apply a uniform coat of **ANTI-OXID LIQUID**.
- Leave to dry for 4 hours and apply a uniform second coat using the same method.
- When the **ANTI-OXID LIQUID** has dried completely, after about 2 hours, you can repair the structural concrete using **FIX-REPAR R2** or **FIX-REPAR R4** depending on your compressive strength requirements.

APPLICATION DOSAGE:	
Depending on number of applications:	120-240 g/m^2
For very rugged or very thick reinforcement bars:	300 g/m^2

TECHNICAL INFORMATION	ANTI-OXID LIQUID
PRODUCT:	
• Type:	UNE-EN 1504-7:2007: rust neutralizer by passivation
• Appearance:	clear viscous liquid
• Density:	1.34 g/cm^3 (+20°C)
• Viscosity:	approx. 90cP (+20°C)
• Flammability / Toxicity:	NONE
APPLICATION:	
• Application temperature:	+ 5°C to + 35°C
• Drying time between coats:	30 min to4 hours
• Drying time for last coat:	2 hours (+20°C)
STORAGE: in a covered, dry and ventilated place:	36 months
FORMAT: this product is supplied in:	1-kg and 5-kg bottles

TEST CONDITIONS:

- Stage 1: 10 alternating condensation cycles with 8 hours at +40°C±3°C in closed chamber and 16 hours at +21°C±2°C in open chamber with relative humidity in air <75% according to AHT UNE-EN ISO 6270-2.
- Stage 2: 10 cycles of Kesternich UNE-EN ISO 6988 with 8 hours at +40°C±3°C in an SO2 atmosphere with 100% relative humidity and 16 hours of cooling to +23°C±3°C with a relative humidity in air of 50%±5%.
- Stage 3: 120-hour exposure in saline atmosphere according to the salt spray test NSS UNE-EN 60068-2-11with 5% NaCl concentration (vol%); demineralized water conductivity of 11.9 uS/cm; density of 1.032 g/cm^3 and temperature 35.2°C±1°C.
- Results obtained:

ELEMENTS:		ASSESSMENT according to standard UNE-EN 1504-7:2007		
		Rust progression	Requisite UNE-EN 1504-7	Value
"Rebar"	ø8 mm	No rust present	Coated areas of the steel rebars are free of rust and the rust layer on the edge of the sanded sheet is <1 mm	PASS
"Rebar"	ø16 mm	No rust present		
"Sheet"		No rust present		

Ideal for swimming pools and in general any mortar, concrete or structural concrete element.

When the **ANTI-OXID LIQUID** has dried completely, **FIX-REPAR R2** or **R4** repairing mortar can be applied.

EPOXICOL

Three-component epoxi adhesive and pouring mortar used for patching-repairing concrete and as an anchoring resin.

WARNING

EPOXICOL should not be used:

- Over dirty surfaces: we can not assure a correct adhesion.
- Over wet concrete.

FIELDS OF APPLICATION

Since its filler comes separately as a third component, the product's uses are many:

- As a **filler resin** with no retraccion. Ideal for **anchoring metal**.
- As a **patching-repairing tixotropic mortar**. Appliable with a flat trowell on concrete surfaces horizontally and vertically.
- As an **epoxi thin-set mortar for tiling** over metal surfaces, prefabricated concrete, natural stone on dintells, columns, kitchen counter-tops, etc.

TECHNICAL CHARACTERISTICS:

EPOXICOL is a three-component, high-strength epoxic mortar with selected fillers and special additives that react chemically resulting in an excellent product with:

- **Superior bond** to most surfaces: ceramic, concrete, metal, wood, fibercement, etc.
- High, and fast, **mechanical resistance**.
- Excellent **chemical resistance** to acids, solvents, detergent, etc.
- 100% **waterproof**.
- Very good **aging properties**.

HOW TO USE

- **Preparing the surface:**
  Surfaces should be strong, sound and clean of dirt, paint, wax, oil, grease, etc. We strongly recommend sand-blasting or at least mechanically cleaning the surfaces where the product is to be applied. Concrete surfaces must be at least 28 days old.

◆ **Mixing instructions:**

1° Take the 3 components out of the bucket.

2° Fully empty the contents of the two bottles inside the bucket.

3°. Add the third component as you like, depends on your needs.

4° Mix slowly with a stirrer (300rpm recommended)

(Note: when anchoring into concrete the hole should be at least 4 mm. in diameter greater than the metallic piece to be anchored)

CLEANING TOOLS

Clean tools with water before the **EPOXICOL** hardens.

CONSUMPTION:

14 kg/m^2 per cm of thickness = 1.4 Kg./lt.

TECHNICAL DATA

DIRECTIVES	EN 1504-3
PRODUCT	
• Type:	R2 mortar of reactive resins with additional characteristics and null slip.
• Aspect part "A" and "B":	Fluid liquids
• Aspect part "C":	Powder
• % of solids:	100%
• Chloride ion content:	0%
• Inflammable:	No
• Toxicity:	Contact with skin and eyes must be avoided. Always use gloves during installation, protective goggles are also recommended. In the case of skin contact, wash with plenty of soap and water. In case of eye contact wash with plenty of running water and consult a doctor.
APPLICATION	
• Start the application over concrete:	After 28 days minimum
• Density of mixture:	1.5 g/cm^3
• Temperature of application:	from +12°C to +30°C (ideal +20°C)
• Useful life:	1 hour (at +20°C)
• Can be walked on:	14 hours (at +20°C)
• Final hardening:	7 days (at +20°C)
PERFORMANCE PROPERTIES	
• Resistance to damp:	excellent
• Resistance to ageing:	excellent
• Resistance to acids/alkalis:	excellent
• Resistance to solvents:	very good
• Resistance to compression:	$\geq$ 15 MPa
• Initial adherence:	$\geq$ 0.8 MPa
• Capillary absorption:	<0,5 Kg/m^2 h^{0,5} (EN 13057)
• Range of working temperatures:	from -20°C to +90°C
STORAGE	
• In a covered area, protected from heat and freezing temperatures, kept in its original containers:	2 years
PRESENTATION AND COLOURS	
• Supplied in:	2-kg pots., 5-kg and 20-kg pots.

FIX-NIVEL & FIX-NIVEL THICK LAYER

Fast-hardening SELF-LEVELLING mortars for floors between 1 and 15 mm or 5 and 50 mm thickness.

WARNING

- Do not add lime or extra cement: this would lead to lack of adherence, fissures and a delay in the drying.
- Do not apply to dirty surfaces, with unconnected parts, with remains of paint, dust, water, etc.
- Do not apply outside.
- Do not apply in areas where there is a continuous damp threat.
- Do not apply outside the range of temperatures permitted.
- Do not use on metal supports.

FIELDS OF APPLICATION

- For indoor use.
- For making self-levelling cement-like flooring of thickness preferably between **1 and 15 mm.** or **5 and 50 mm.**
- For making self-levelling cement-like flooring without joins, with an easy-to-clean smooth finish and the version **FIX-NIVEL THICK LAYER highly resistant to wear** from wheeled articles (trolleys, chairs, pallet carriers, forklift trucks, etc.).
- For making cement-like floors that are suitable for the later application of **ceramics, carpet, parquet, vinyl, PVC, etc.**
- For making bases over concrete, mortar, slabs, hydraulic flooring, **RECRECEM PREMIX**, ceramics, wood, stone, etc.
- For making bases for floors with **radiant heating.**

TECHNICAL SPECIFICATIONS

FIX-NIVEL & **FIX-NIVEL THICK LAYER** are a pre-dosed, self-levelling, fast-setting mortars, made of cements, resins, loads and high resistant additives that combine perfectly the three main aspects in a mortar of these characteristics:

- high end resistance in all senses.
- easy workability over an extended period of time.
- good finish and final appearance of the surface area.

FIX-NIVEL & FIX-NIVEL THICK LAYER are mixed with water only, making its use on site very simple.
Its characteristics distinguish it, due to its:

- **extremely high** mechanical resistance in flexion and compression.
- physical-mechanical characteristics very similar to those of concrete in elasticity and permeability, thus preventing **the formation of cracks** and fissures.
- **great adherence** to most construction materials: concrete, stone, ceramics, mortar, slabs, hydraulic flooring, etc.
- **extremely high** resistance to wear from abrasion.
- its **fast hardening** enables you to apply it "on the go".
- it has **no retraction.**

HOW TO USE

- **Preparation of the support:**
  Correct, exhaustive and detailed cleaning of the support is the best guarantee to ensure a long-lasting job. There are two phases to be carried out:

1st.- Remove all remains of deteriorated, unconnected, non-solid, broken-up support.

Also remove all remains of dust, paint, wax, products for removing formwork, etc.

2nd.- If there are any of the following supports, you must carry out a previous phase before applying the mortar**:**

a) concrete surfaces that are very absorbent or dusty: prime them first with a mixture of **PRIMFIX** and water, in a 1:4 ratio. Apply this mixture with a brush and leave to dry.

b) wooden surfaces: you must make a union bridge between the wood and the selflevelling mortar using our product, **BOND COAT**. Apply the **BOND COAT** and let dry 3-5 hours; then apply the mortar**.**

c) old tiles surfaces: when you apply **FIX-NIVEL THICK LAYER** on old tiles, you must make a union bridge between the tiles and the selflevelling mortar using our product, **BOND COAT**. Apply the **BOND COAT** and let dry 3-5 hours; then apply the mortar**.**

◆ **Preparation of the mixture:**
You must distinguish between three possibilities:

a) for thicknesses of 1 to 15 mm.
Pour 7.0 litres of clean water into a bucket. Add a 25-kg sack of **FIX-NIVEL** to the water, stirring continuously with an electric mixer set at slow. Allow to stand for 2 minutes. Re-mix with the electric mixer for a few more seconds: the mortar is ready to be used. This operation can be carried out without problems with automatic pumping centres.

b) for thicknesses of 5 to 50 mm.
Pour 4.50 litres of clean water into a bucket. Add a 25-kg sack of **FIX-NIVEL THICK LAYER** to the water, stirring continuously with an electric mixer set at slow. Allow to stand for 2 minutes. Re-mix with the electric mixer for a few more seconds: the mortar is ready to be used. This operation can be carried out without problems with automatic pumping centres.

c) for thicknesses of more than 50mm.:
Without a doubt, in these cases it is recommended to first use the predosed cement **RECRECEM PRE-MIX** or **PAVIFORT**, and when it has been applied, to use **FIX-NIVEL** as a smooth final layer.

◆ **Spreading the mixture:**
The success of the application of a self-levelling mortar consist of carrying out the following points:

1st. Before pouring the mass, you should have demarcated the level to be done in the whole area where the selflevelling mortar is to be applied. In other words, if you consider that the mortar is "like water", once the mass has been poured in, it will occupy all the space available due to its self-levelling nature, therefore NOT ONLY should the final levels be calculated, but also **the area should be physically demarcated with rulers, pieces of wood, walls, etc.**

2nd. The following step is easy: you should **pour in the mortar** mixed with water until you fill the space demarcated between the rulers, walls, etc. until the desired level is reached.

◆ **Later laying of flooring:**
The selflevelling mortars are a fast-setting mortars: usually, 12-24 hours after its laying, it is ready to have the final flooring laid on it: ceramics, carpet, parquet, PVC, etc. However, the decision on whether or not to start laying will be taken definitively by measuring the humidity of the mortar, as the thickness, the temperature and the environmental humidity at the time of using it are factors that may accelerate or delay the ideal moment for starting to lay.

When you lay glued wood, the minimum thickness of the layer of **FIX-NIVEL** must be 3 mm, so that it can counteract the tension that the adhesive and the floorboard will have on the **FIX-NIVEL**.

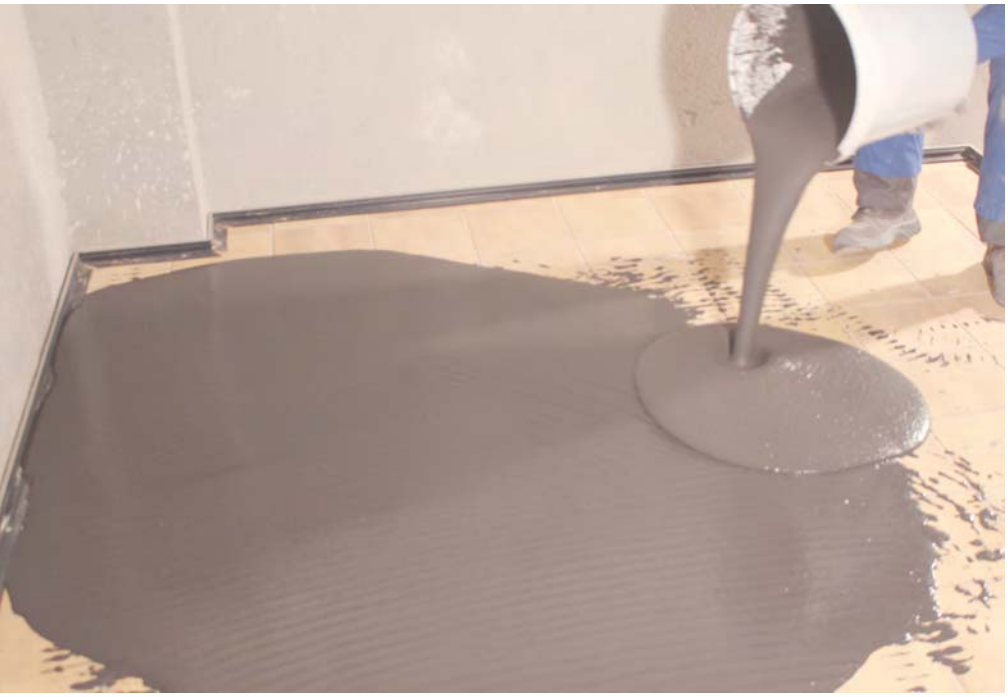
CONSUMPTION:	
Very absorbent surfaces: primer:	0.03 lt./m^2 **PRIMFIX** + 0.12 lt./m^2 water
Wooden surfaces: primer:	0.1-0.15 Kg./m^2 **BOND COAT**
FIX-NIVEL	1.6 Kg./m^2 per mm.of thickness
FIX-NIVEL THICK LAYER	2.1 Kg./m^2 per mm.of thickness

TECHNICAL SPECIFICATIONS	
DIRECTIVES	EN 13813
PRODUCT	
• Type:	FIX-NIVEL: CT-C11-F4: fast-hardening self-levelling mortar FIX-NIVEL THICK LAYER: CA-C35-F9: fast-hardening self-levelling mortar
• Apparent density in powder:	1.4 g/cm^3 / 1.5 g/cm^3
• Granulometry:	from 0 to 1 mm. / from 1 to 4 mm.
• Content of dry solids:	100%
• Toxicity:	irritant, avoid contact with skin and eyes
APPLICATION	
• Proportion of the mixture:	7.0 litres / 4.50 litres of water to 25 kg.
• Apparent density when fresh:	1.9 g/cm^3 / 2.1 g/cm^3
• pH when damp:	11.4 (FIX-NIVEL THICK LAYER)
• Temperature of application::	between +5°C and +35°C
• Duration of the mixture:	20-30 minutes
• Thicknesses applicable per coat:	from 1 to 15 mm. / from 5 to 50 mm.
• Can be walked on after:	3-12 hours
• Application of the flooring:	12-24 hours
PERFORMANCE PROPERTIES	
• Resistance to damp: < 2 %!! 24 hours (with a calcium carbide hygrometer + 20°C, 60%)	
• Resistance to ageing:	excellent
• Resistance to solvents:	excellent
• Wear resistance:	excellent
• Flexibility:	good
• Resistance to flexion:	$\geq$4 N/mm^2 / $\geq$9 N/mm^2
• Resistance to compression:	$\geq$11 N/mm^2 / $\geq$35N/mm^2
STORING	
• In covered, dry, ventilated places:	12 months
PACKING: supplied in:	25 kg. in grey color

FIX-NIVEL PREMIUM

Quick-setting EXTRA-FLUID self-leveling mortar for floors between 1 to 20 mm. of thickness.

"it's like water"



WARNING

- Do not add lime or extra cement: this would lead to lack of adherence, fissures and a delay in the drying.
- Do not apply to dirty surfaces, with unconnected parts, with remains of paint, dust, water, etc.
- Do not apply outside.
- Do not apply in areas where there is a continuous damp threat.
- Do not apply outside the range of temperatures permitted.
- Do not use on metal supports.

FIELDS OF APPLICATION

- For indoor use.
- For making self-levelling cement-like flooring of thickness preferably between **1 and 20 mm.**
- For making self-levelling cement-like flooring without joins, with an easy-to-clean smooth finish and **highly resistant to wear** from wheeled articles (trolleys, chairs, pallet carriers, forklift trucks, etc.).
- For making cement-like floors that are suitable for the later application of **ceramics, carpet, parquet, vinyl, PVC, etc.**
- For making bases over concrete, mortar, slabs, hydraulic flooring, **PAVIFORT**, ceramics, wood, stone, etc.
- For making bases for floors with **radiant heating.**

TECHNICAL SPECIFICATIONS

FIX-NIVEL PREMIUM is a pre-dosed, self-levelling, fast-setting mortar, made of cements, resins, loads and high resistant additives that combine perfectly the three main aspects in a mortar of these characteristics:

- high end resistance in all senses.
- easy workability over an extended period of time.
- good finish and final appearance of the surface area.

FIX-NIVEL PREMIUM is mixed with water only, making its use on site very simple.
Its characteristics distinguish it, due to its:

- **extremely high** mechanical resistance in flexion and compression.
- physical-mechanical characteristics very similar to those of concrete in elasticity and permeability, thus preventing **the formation of cracks** and fissures.
- **great adherence** to most construction materials: concrete, stone, ceramics, mortar, slabs, hydraulic flooring, etc.
- **extremely high** resistance to wear from abrasion.
- its **fast hardening** enables you to apply it "on the go".
- it has **no retraction.**

HOW TO USE

- **Preparation of the support:**
  Correct, exhaustive and detailed cleaning of the support is the best guarantee to ensure a long-lasting job. There are two phases to be carried out:

1st.- Remove all remains of deteriorated, unconnected, non-solid, broken-up support.

Also remove all remains of dust, paint, wax, products for removing formwork, etc.

2nd.- If there are any of the following supports, you must carry out a previous phase before applying the mortar**:**

a) concrete surfaces that are very absorbent or dusty: prime them first with a mixture of **PRIMFIX** and water, in a 1:4 ratio. Apply this mixture with a brush and leave to dry.

b) wooden surfaces: you must make a union bridge between the wood and the selflevelling mortar using our product, **BOND COAT**. Apply the **BOND COAT** and let dry 3-5 hours; then apply the mortar**.**

c) old tiles surfaces: when you apply **FIX-NIVEL PREMIUM** on old tiles, you must make a union bridge between the tiles and the selflevelling mortar using our product, **BOND COAT**. Apply the **BOND COAT** and let dry 3-5 hours; then apply the mortar.

◆ **Preparation of the mixture:**
You must distinguish between three possibilities:

a) for thicknesses of 1 to 20 mm.
Pour 5.6-5.8 litres of clean water into a bucket. Add a 25-kg sack of **FIX-NIVEL PREMIUM** to the water, stirring continuously with an electric mixer set at slow. Allow to stand for 2 minutes. Re-mix with the electric mixer for a few more seconds: the mortar is ready to be used. This operation can be carried out without problems with automatic pumping centres.

b) for thicknesses of more than 50mm.:
Without a doubt, in these cases it is recommended to first use the predosed cement **RECRECEM PRE-MIX** or **PAVIFORT**, and when it has been applied, to use **FIX-NIVEL PREMIUM** as a smooth final layer.

◆ **Spreading the mixture:**
The success of the application of a self-levelling mortar consist of carrying out the following points:

1st. Before pouring the mass, you should have demarcated the level to be done in the whole area where the selfleveelling mortar is to be applied. In other words, if you consider that the mortar is "like water", once the mass has been poured in, it will occupy all the space available due to its self-levelling nature, therefore NOT ONLY should the final levels be calculated, but also **the area should be physically demarcated with rulers, pieces of wood, walls, etc.**

2nd. The following step is easy: you should **pour in the mortar** mixed with water until you fill the space demarcated between the rulers, walls, etc. until the desired level is reached.

◆ **Later laying of flooring:**
The selflevelling mortars are a fast-setting mortars: usually, 12-24 hours after its laying, it is ready to have the final flooring laid on it: ceramics, carpet, parquet, PVC, etc. However, the decision on whether or not to start laying will be taken definitively by measuring the humidity of the mortar, as the thickness, the temperature and the environmental humidity at the time of using it are factors that may accelerate or delay the ideal moment for starting to lay.

When you lay glued wood, the minimum thickness of the layer of **FIX-NIVEL PREMIUM** must be 3 mm, so that it can counteract the tension that the adhesive and the floorboard will have on the **FIX-NIVEL PREMIUM**.

CONSUMPTION:	
Very absorbent surfaces: primer:	0.03 lt./m^2 **PRIMFIX** + 0.12 lt./m^2 water
Wooden surfaces: primer:	0.1-0.15 Kg./m^2 **BOND COAT**
FIX-NIVEL PREMIUM	1.6 Kg./m^2 per mm.of thickness

TECHNICAL SPECIFICATIONS	
DIRECTIVES	EN 13813
PRODUCT	
• Type:	CT-C25-F7: fast-hardening self-levelling mortar
• Apparent density in powder:	1.33 g/cm^3
• Granulometry:	from 0 to 1 mm.
• Toxicity:	irritant, avoid contact with skin and eyes
APPLICATION	
• Proportion of the mixture:	5.6-5.8 litres of water to 25 kg.
• Apparent density when fresh:	2.0 g/cm^3
• Temperature of application::	between +5°C and +35°C
• Duration of the mixture:	20-30 minutes
• Thicknesses applicable per coat:	from 1 to 20 mm.
• Can be walked on after:	3-12 hours
• Application of the flooring:	12-24 hours
PERFORMANCE PROPERTIES	
• Resistance to damp: < 2 %!! 24 hours (with a calcium carbide hygrometer + 20°C, 60%)	
• Resistance to ageing:	excellent
• Resistance to solvents:	excellent
• Wear resistance:	excellent
• Flexibility:	good
• Resistance to flexion:	> 7 N/mm^2
• Resistance to compression:	>25 N/mm^2
• Abrasion resistance:	A15 (>15cm^3/50cm^2)
STORING	
• In covered, dry, ventilated places:	6 months
PACKING:	
• supplied in:	25 kg. in grey color

FIX-REPAR ANTI-OXID

Pre-dosed mortar activated for the protection of ferrous reinforcements.

ATTENTION

FIX-REPAR ANTI-OXID should not be used:

- Without using the basic precautions required by a chemical product: use rubber gloves and protective goggles.

It is only necessary to remove the oxide crosts before to apply **FIX-REPAR ANTI-OXID**

CAMPOS DE APLICACIÓN

- Anti-corrosion primer for the protection of steel reinforcements.
- Applicable in marine environments or in concrete contaminated with chlorides.
- **FIX-REPAR ANTI-OXID** also acts as a bridge between the new concrete and the reinforcement irons, since it is strongly additivated with polymeric resins.
- Can be used in flooring, coatings, both in INTERIORS and OUTDOORS and in swimming pools.

TECHNICAL CHARACTERISTICS

FIX-REPAR ANTI-OXID stabilizes the oxide present, thus protecting the surface from future corrosion. This method of protection is technically defined as anodic passivation.

FIX-REPAR ANTI-OXID is quick hardening and reinstates a high pH for the protection of concrete around it.

FIX-REPAR ANTI-OXID can be applied directly above the oxide.

Essential as a previous step to any renovation of concrete.

HOW TO USE

- Remove any remains of deteriorated concrete, disconnected, not very solid, disintegrable, ... Also remove all traces of dust, paint, wax, release agent, ...
- Remove the thickest traces of rust. Brush and vacuum the powder. Then apply a uniform coat of **FIX-REPAR ANTI-OXID** with the help of a brush, roller or spray system.
- **FIX-REPAR ANTI-OXID** is mixed only with water. **FIX-REPAR ANTI-OXID** stabilizes the oxide present, thus protecting the surface from future corrosion. This method of protection is technically defined as anodic passivation. When **FIX-REPAR ANTI-OXID** has dried, at approximately 2 hours, it turns a light grey color.

CONSUMPTION:
1.5 Kg/m^2 per mm of thickness

TECHNICAL DATA	**FIX-REPAR ANTI-OXID**
PRODUCT:	
• Type:	EN 1504-7: neutralizing by passivation of corrosion processes
• Appearance:	Grey powder
• Density:	1,8 g/cm^3
• Mix water:	22-26%
• Inflammability:	NO
APPLICATION:	
• Application temperature:	+ 5°C to + 35°C
• Drying time between coats:	30 minutes (+20°C)
• Total drying time:	2 hours (+20°C)
STORAGE: in covered, dry and ventilated places:	24 months
PRESENTATION: is delivered in:	Cans of 1 and 5 kgs.

Ideal in pools and in general in any element of mortar, concrete or structural concrete.

When **FIX-REPAR ANTI-OXID** turns to a light gray color, we can apply the repair mortar **FIX-REPAR R2** or **R4**.

FIX-REPAR R2

Pre-dosed, fast-setting mortar for repairing and cleaning concrete.

WARNING

- Do not add sand, lime or extra cement: this would cause drips, the product to come loose and lack of adherence.
- Do not apply to dirty surfaces, surfaces with unconnected parts, remains of paint, etc.
- Do not apply to iron without previously treating with **FIX-REPAR ANTI-OXID** or **ANTI-OXID LIQUID.**

FIELDS OF APPLICATION

- **Reconstruction** of the iron-covering layer in reinforced concrete structures.
- Also ideal for **repairing** balconies, cornices, lintels, pillars, beams, etc.
- For repairing surface **defects** such as gaps or patches of gravel, even those which are very thick.
- For reconstructing **steps**, ornamental pieces, stone walls, etc.
- Suitable for **sealing cracks** and rigid fissures and for reinforcing concrete faces.
- Excellent for repairing the **rims of windows**, doors, bolts anchorage points, etc.
- Thanks to its very high resistance to wear, it is ideal in flooring, **ramps**, channels, bridges, etc.
- Excellent for vertical and horizontal repairs, even **against gravity**.

TECHNICAL SPECIFICATIONS

FIX-REPAR R2 is a mortar that has been modified with high-resistant, high-quality resins, with controlled retraction, fibre reinforcement and fast setting, thus obtaining high initial resistance to flexion and compression.

FIX-REPAR R2 is mixed with just water, making a cement that is easy to work with a trowel and easily smoothed with a fine trowel; excellent adhesion, a very high resistance to abrasion, resistance to adverse weather conditions, and a technical base of flexibility, that enables its use in all specified applications.

Its distinguishing characteristics are:

- very high mechanical resistance in flexion and compression.
- physical-mechanical characteristics very similar to those of concrete: elasticity, permeability, etc.
- great adherence to most construction materials: concrete, stone, brick.
- very high resistance to wear.
- will not come loose.
- as it has an alkaline nature, it protects framework.

HOW TO USE

- **Preparation of the support:**
  Correct, exhaustive and detailed cleaning of the support is the best guarantee to ensure a long-lasting repair. There are three phases to be carried out:

1st.- Elimination of any remains of deteriorated, unconnected, not very solid, disintegrating concrete. Also remove all remains of dust, paints, waxes, framework removing products, etc.

2nd.- If you need to protect the iron in framework, remove the larger areas of rust. Brush and vacuum up the dust. Then apply an even layer of **ANTI-OXID LIQUID** or **FIX-REPAR ANTI-OXID** with the help of a brush. Mix **FIX-REPAR ANTI-OXID** with water. **FIX-REPAR ANTI-OXID** will stabilise any rust present, thus protecting the surface from further erosion. This kind of protection is technically defined as anodic passivation. When **FIX-REPAR ANTI-OXID** has dried, in approximately 2 hours, it turns a light grey colour.

3rd.- Very absorbent supports or ones that are exposed to the sun in hot spells, should be previously damped to prevent the fast loss of water from the repair mortar. If you have used **ANTI-OXID LIQUID** or **FIX-REPAR ANTI-OXID**, allow 2 hours to pass before damping the support.

◆ **Preparation of the mixture:**
Mix approximately 4.0 litres of water with 25 kg of **FIX-REPAR R2 GREY**; use an electric mixer at a low speed. Mix for a few minutes.

◆ **Application of the mixture:**
- Apply the mortar with the help of a trowel. To smooth it, use a very fine trowel.
- **FIX-REPAR R2** can be applied without the need to use formwork in thickness of a minimum of 5 mm to a maximum of 35 mm per coat.
- In applications with exposure to strong sunlight, previously damp the support and once you have carried out the repair, protect the surface creating artificial shade and/or periodically damping the surface area. In this way you will prevent the formation of surface micro-fissures through drying too fast.

CONSUMPTION:	
FIX-REPAR R2	19 Kg./m^2 per cm. of thickness
FIX-REPAR ANTI-OXID	1.5 Kg/m^2 per mm of thickness
ANTI-OXID LIQUID	0.12-0.30 Kg/m^2

TECHNICAL SPECIFICATIONS	FIX-REPAR R2
DIRECTIVES	EN 1504-3
PRODUCT	
• Type:	R2 - Fast-setting mortar for repairing
• Apparent density in powder:	1.5 g/cm^3
• Granulometry:	from 0 to 2 mm.
• Toxicity:	Irritant, avoid contact with skin and eyes.
• Chloride ion content:	< 0,05%
APPLICATION	
• Proportion of the mixture:	Grey color: 4.0 lt./25 kg.
• Apparent density when fresh:	1.7 g/cm^3
• Temperature of application:	between +5° C and +35° C
• Duration of the mixture:	30-60 minutes
• Thickness applicable per coat:	from 5 to 35 mm
• Can be walked on after:	24 hours
PERFORMANCE PROPERTIES	
• Resistance to damp:	excellent
• Resistance to ageing:	excellent
• Resistance to solvents:	excellent
• Wear resistance:	excellent
• Flexibility:	good
• Resistance to compression:	> 15.0 N/mm^2
• Adhesion:	$\geq$ 0,8 MPa (EN 1542)
• Capillarity absorption (EN 13057):	< 0.5 Kg/m^2 $h^{0.5}$
STORING	
• In covered, dry, ventilated places:	12 months
PACKING	
Supplied in:	25 kg. in grey color

TECHNICAL SPECIFICATIONS	FIX-REPAR ANTI-OXID
PRODUCT	
• Type:	EN 1504-7: Its protection is technically defined as anodic passivation
• Appearance:	grey powder
• Density of the mix:	1.8 g/cm^3
• Proportion of the mixture:	22-26%
• Toxicity and inflammability:	Irritant, avoid contact ; NO.
APPLICATION	
• Range of temperature of application:	between +5°C and +35°C
• Waiting time between coats:	30 minutes (+20°C)
• Drying time at +20°C:	2 hours
STORING	
• In covered, dry, ventilated places:	24 months
PACKING supplied in:	1 lt. and 5 Kg.

FIX-REPAR R4

Pre-dosed, fast-setting mortar for repairing and cleaning structural concrete.

WARNING

- Do not add sand, lime or extra cement: this would cause drips, the product to come loose and lack of adherence.
- Do not apply to dirty surfaces, surfaces with unconnected parts, remains of paint, etc.
- Do not apply to iron without previously treating with **FIX-REPAR ANTI-OXID** or **ANTI-OXID LIQUID.**

FIELDS OF APPLICATION

- Excellent for vertical and horizontal repairs, even **against gravity**.
- **Reconstruction** of the iron-covering layer in reinforced concrete structures.
- Also ideal for **repairing** balconies, cornices, lintels, pillars, beams, etc.
- For repairing surface **defects** such as gaps or patches of gravel, even those which are very thick.
- For reconstructing **steps**, ornamental pieces, stone walls, etc.
- Suitable for **sealing cracks** and rigid fissures and for reinforcing concrete faces.
- Excellent for repairing the **rims of windows**, doors, bolts anchorage points, etc.
- Thanks to its very high resistance to wear, it is ideal in flooring, **ramps**, channels, bridges, etc.

TECHNICAL SPECIFICATIONS

FIX-REPAR R4 is a mortar that has been modified with high-resistant, high-quality resins, with controlled retraction, fibre reinforcement and fast setting, thus obtaining high initial resistance to flexion and compression.

Its distinguishing characteristics are:

- very high mechanical resistance in flexion and compression.
- physical-mechanical characteristics very similar to those of concrete: elasticity, permeability, etc.
- great adherence to most construction materials: concrete, stone, brick.
- very high resistance to wear.
- will not come loose.
- as it has an alkaline nature, it protects framework.
- low capillarity and high impermeability.
- water vapor permeability.
- high resistance to carbonation.
- product pre-dosed: mix with water and apply.

HOW TO USE

- **Preparation of the support:**
  Correct, exhaustive and detailed cleaning of the support is the best guarantee to ensure a long-lasting repair. There are three phases to be carried out:

1st.- Elimination of any remains of deteriorated, unconnected, not very solid, disintegrating concrete. Also remove all remains of dust, paints, waxes, framework removing products, etc.

2nd.- If you need to protect the iron in framework, remove the larger areas of rust. Brush and vacuum up the dust. Then apply an even layer of **ANTI-OXID LIQUID** or **FIX-REPAR ANTI-OXID** with the help of a brush. Mix **FIX-REPAR ANTI-OXID** with water. **FIX-REPAR ANTI-OXID** will stabilise any rust present, thus protecting the surface from further erosion. This kind of protection is technically defined as anodic passivation. When **FIX-REPAR ANTI-OXID** has dried, in approximately 2 hours, it turns a light grey colour.

3rd.- Very absorbent supports or ones that are exposed to the sun in hot spells, should be previously damped with **PRIMFIX** to prevent the fast loss of water from the repair mortar. Allow 2 hours.

◆ **Preparation of the mixture:**
Mix approximately 3.75 litres of water with 25 kg of **FIX-REPAR R4 GREY**; use an electric mixer at a low speed. Mix for a few minutes.

◆ **Application of the mixture:**
- Apply the mortar with the help of a trowel. To smooth it, use a very fine trowel.
- **FIX-REPAR R4** can be applied without the need to use formwork in thickness of a minimum of 10 mm to a maximum of 40 mm per coat.
- In applications with exposure to strong sunlight, previously damp the support and once you have carried out the repair, protect the surface creating artificial shade and/or periodically damping the surface area. In this way you will prevent the formation of surface micro-fissures through drying too fast.

CONSUMPTION:	
FIX-REPAR R4	19 Kg./m^2 per cm. of thickness
FIX-REPAR ANTI-OXID	1.5 Kg/m^2 per mm of thickness
ANTI-OXID LIQUID	0.12-0.30 Kg/m^2

TECHNICAL SPECIFICATIONS	FIX-REPAR R4
DIRECTIVES	EN 1504-3
PRODUCT	
• Type:	R4 - Fast-setting mortar for repairing
• Apparent density in powder:	1.4 g/cm^3
• Granulometry:	from 0 to 4 mm.
• Toxicity:	Irritant, avoid contact with skin and eyes.
• Chloride ion content:	< 0,05%
APPLICATION	
• Proportion of the mixture:	3.75 lt./25 kg.
• Apparent density when fresh:	2.0 g/cm^3
• Temperature of application:	between +5° C and +35° C
• Duration of the mixture:	30-60 minutes
• Thickness applicable per coat:	from 10 to 40 mm
• Can be walked on after:	24 hours
PERFORMANCE PROPERTIES	
• Resistance to damp:	excellent
• Resistance to ageing:	excellent
• Resistance to solvents:	excellent
• Wear resistance:	excellent
• Flexibility:	good
• Resistance to compression:	> 45 N/mm^2
• Adhesion and Elastic Module:	> 2,0MPa (EN 1542); >20GPa (EN 13412)
• Capillary absorption:	<0,5 Kg/m^2 $h^{0,5}$ (EN 13057)
STORING	
• In covered, dry, ventilated places:	12 months
PACKING	
Supplied in:	25 kg. in grey color

TECHNICAL SPECIFICATIONS	FIX-REPAR ANTI-OXID
PRODUCT	
• Type:	EN 1504-7: Its protection is technically defined as anodic passivation
• Appearance:	grey powder
• Density of the mix:	1.8 g/cm^3
• Proportion of the mixture:	22-26%
• Toxicity and inflammability:	Irritant, avoid contact ; NO.
APPLICATION	
• Range of temperature of application:	between +5°C and +35°C
• Waiting time between coats:	30 minutes (+20°C)
• Drying time at +20°C:	2 hours
STORING	
• In covered, dry, ventilated places:	24 months
PACKING	
• Supplied in:	1 lt. and 5 Kg.

GROUT S10

A single-component mortar for securing and filling by pouring. Slightly expansive.

WARNING

When using **GROUT S10** do not:

- Alter its composition.Add only water.
- Add more water than the amount indicated, as this means increasing the drying times and dilutes the properties of the product .
- Do not apply **GROUT S10** to highly absorbent substrates without wetting them first.
- Do not use **GROUT S10** for purposes other than those indicated in this specification.
- Do not use it to create residential foundations or slabs: it is an anchoring mortar.

FIELDS OF APPLICATION

- **GROUT S10** is a CONSTANT-formulation mortar. It contains no clay, ash, carbonates,… It is designed for **important applications** in which durability and safety are essential.
- **GROUT S10** is ideal for use in filling under **anchoring plates**, due to its great fluidity and mechanical resistance. Grout has a small cost in proportion to the total cost of installing the structures, which fully justifies using **GROUT S10**: achieving a recompression of 54 N/mm^2 !!!
- **GROUT S10** is the most appropriate filling product for sealing the tongue and groove openings created after assembling two adjacent **Sistema S10 Rosa Gres** tiles.
- **GROUT S10** is the easiest and most economical solution for **anchoring railings** or posts in concrete, due to its great adherence to the substrate and iron of the railings.
- **GROUT S10** can be used to seal fissures or cracks without movement and horizontal elements in concrete or mortar.

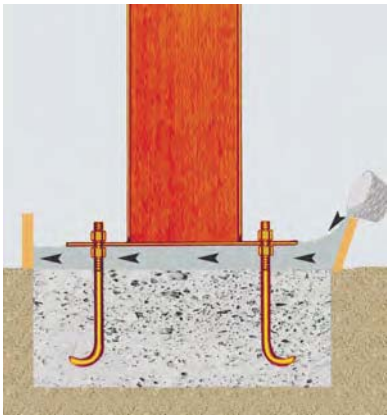
TECHNICAL CHARACTERISTICS

GROUT S10 is a preparation with a high percentage of high-quality polymers. By adding just water, a mortar for anchoring and filling with controlled retraction is obtained. On hardening, it evenly transmits the strain of machines or structures towards the foundations, thereby permitting the optimal functioning of the whole assemblyl. Its specific composition gives it:

- excellent **fluidity:** it is easy to use and ensuring total filling and full contact between the anchoring plate and the substrate.
- it has **controlled retraction:** preventing lack of adherence and ensuring the correct transmission of loads.
- self-levelling, with no segregation.
- develops high **mechanical resistance** in a very short time. See Technical Data Table.
- waterproof and resistsant to aggressive substances.
- has a clearly alkaline pH meaning it is not only non-corrosive for the metal structure, but that it also protects it.
- allows it to be put into use very quickly.
- high resistance to blows, vibrations and traction, torsion or shearing strain.

APPLICATION

- **Substrate:**
  - The concrete or mortar substrate must be clean, hardened and free from oils or flaking.
  - If the substrate is very smooth, make it more rough by sandblasting it or a similar technique: this will increase the adherence of the group to the substrate.
  - Particularly in hot weather, wet the concrete with water, but make sure to do this 24 hours before applying the grout.



The thickness between plate and concrete must be minimum 3 cm.

- If there are metallic items, these should be brushed mechanically beforehand to remove any rust present.
- Apply **GROUT S10** at a temperature of between +5ºC and +30ºC. If the grout contact surfaces are very cold, the appropriate heating systems must be provided 24 hours beforehand, and maintained until 2-3 days after the application.
  If, on the contrary, it is very hot, mix the grout with cold water (without ice) and keep it in the shade for at least 2-3 days after application.

◆ **Mixing the mortar:**

- Pour 3.25-3.50 litres of water into a large receptacle and slowly add 25 kg of **GROUT S10** to the mixture, stirring with an electric mixer set on slow for 2 to 3 minutes.
- Pour directly into the cavity as soon as the grout is mixed completely with the water.

◆ **Applying the mix:**

When using the mixture for anchoring plates, pour the grout quickly without stopping on one side of the plate until it emerges from the other side, thereby ensuring that no air is trapped inside.
You can use vibrators or rods to fill all the corners completely.
If the plate is very large, holes should be made at intervals of 50 cm and grout applied in one hole until it emerges from the next, repeating the whole process until the end of the plate.

Aspects to be considered:

If using grout on anchoring plates, the distance between the concrete and plate it is advisable be more than 3 cm. If a greater thickness is required, make the application in two coats, leaving 24 hours between the 1st one and the next.

Pour the grout quickly, without stopping.

Ideal for the Rosa Gres Sistema S10.

CONSUMPTION:	
of GROUT S10:	of **2.0 kg/m²** for each cm of thickness

DRYING TIMES AND RESIDUAL HUMIDITY:			
	24 hours	48 hours	7 days
20ºC and 60% Humidity:	3.8	3.0	2.0
	(results as % of residual humidity in weight, measured in a calcium carbide hygrometer. Carbide hygrometers are more reliable than hygrometers that operate by electric conductivity since their results are comparable under all circumstances)		

TECHNICAL SPECIFICATIONS	
STANDARDS:	**EN 1.504-6**
PRODUCT:	
• Type	Mortar for anchoring steel frames (bars) to ensure the continuity of the reinforced concrete structure.
• Density of the powder	1.48 g/cm³
• Granulometry (EN 12.192-1)	from 0 to 4 mm max.
• Chloride content (EN 1015-17)	N/A
•Toxicity	Irritant, avoid contact with eyes and skin.
APPLICATION:	
• Mixing water:	3.25-3.50 litres / 25 kg bag
• Density of the mixture:	2,21 g/cm³
• Temperatura de aplicación:	+ 5ºC to + 30ºC
• Shelf life:	10-15 minutes
• Thickness between anchoring plate and concrete:	min. 30mm
• Minimum time for putting into use:	24 hours
FINAL PERFORMANCE:	
• Resistance to humidity:	excellent
• Resistance to aging:	excellent
• Resistance to solvents:	excellent
• Resistance to acids/alkalis:	very good
• Maximum expansion after 24 hours:	0.17%
•Tearing in accordance with EN 1881:	shifting <0.003 mm. with load= 123 KN
• Resistance to flexion (EN 1015-11):	≥ 8,0 N/mm² (28 days)
• Resistence to compression (EN 12190):	30 N/mm² (24 hours) 45 N/mm² (7 days) ≥ 50 N/mm² (28 days)
•Reaction to fire (EN 1350—1):	A 1
STORAGE:	
•In a dry, covered, ventilated place:	12 months
PRESENTATION:	
•Supplied in:	25 kg sacks

NO-CRACKS

Liquid sealant for micro-cracks in swimming pools and concrete tanks to stop small leaks.

WARNING

NO-CRACKS must not be used:

- For other applications without consulting our Engineering Department previously.
- For LARGE leaks. **NO-CRACKS** can only seal micro-cracks in concrete that are normally invisible...
- For other materials that DO NOT contain cement.

FIELDS OF APPLICATION

- Ideal for concrete tanks, pools, pipes, etc. and generally any water-holding structure made from cement.
- When, for instance, a pool loses water at a maximum rate of 80 litres/day, you can attempt to seal any micro-cracks in the concrete without emptying out the water, and before taking more aggressive measures.

TECHNICAL CHARACTERISTICS

NO-CRACKS is a liquid additive that is added to the water in the pool on the recirculate setting, by-passing the filter. In 48-72 hours, **NO-CRACKS** acts by reacting with the calcium hydroxide in the hydrated cement to form insoluble microcrystals that plug the microcracks, stopping any leaks. The proper dosage is 1 kg per 60 m^3.

Distinguishing features:

- Totally harmless to bathers.
- The crystals formed are totally insoluble, so they will last indefinitely.
- It reacts naturally with the cement in the structure to be repaired.
- Easy to use: add undiluted directly to the water.

DIRECTIONS FOR USE

- **Preparing a swimming pool:**
  Change the multi-function valve of the water cleaning system to the 'recirculate' setting, by-passing the filter.

- **Add NO-CRACKS:**
  · Guided by the dosage chart below, add the recommended dose of **NO-CRACKS** directly to the pool water.
  · If you think the leak could be in a pipe, **NO-CRACKS** can also be added directly into the skimmers.
  · Keep the system on the recirculate setting for 48-72 hours **max.**
  · The pool must NOT be used during this time.

◆ **Finishing the process:**
On determination that **NO-CRACKS** has been effective and the leak has been plugged, or where 72 hours pass and the leak turns out to be bigger than expected, the multi-function valve MUST IN ANY CASE be returned to the filter setting and the pH of the water regulated, as the water will be a little more alkaline at the end of the process.

◆ **What to do if the leak cannot be stopped:**
In the first place, you must be aware that there may not have been any micro-cracks, rather the opposite: through cracks that are much larger than expected. The ideal thing to do in these cases is to locate the cracks using thermal imaging or chemical methods and to seal them appropriately (consult the specification sheet for **SELLADOR S10**). Another possibility is to re-waterproof the pool using the method 'Re-waterproofing without removing old tiles'. Consult our Engineering Department for the steps to take.

◆ **Application in drinking water tanks:**
WARNING: the water to which **NO-CRACKS** is added to stop leaks, is NOT potable and must be discarded.
Once the tank has been emptied, clean the concrete with soap and water, rinse with plenty of water, and refill with clean water.

Examples of dosage according to pool measurements:		
Length x Width x Depth:	**water (m^3):**	**NO-CRACKS:**
8 x 4 x 1.5 m	**48**	**0.8 kgs**
10 x 5 x 1.2 m	**60**	**1 kg**
25 x 12.5 x 1.8 m	**562**	**9 kg**

TECHNICAL INFORMATION

PRODUCT:

• Type:	Liquid sealant reactive with cement
• Density:	approx. 37 Baume (+20°C)
• Viscosity:	approx. 90 cP (+20°C)
• Toxicity:	None
• Irritant:	None

APPLICATION:

• Application temperature:	+5°C to +35°C
• Action within:	48-72 hours max.

STORAGE:

• In a covered, dry and ventilated place:	36 months

PACKAGING:

Supplied in:	1-kg bottles

Concrete with micro-cracks that cause leaks in a pool or tank.

Once the **NO-CRACKS** process has finished, microcrystals form inside the pool that stop the leak.

TAPA-VIAS

Practically INSTANT-SETTING mortar for sealing water leaks in tanks, pipes, etc.

WARNING

TAPA-VIAS must not be used:

- Adding extra sand, lime or cement: this would cause leakage, detachment and lack of adherence.
- On dirty surfaces with disjointed parts, left-over paint, etc.
- For other uses not specified here.

Ideal for instantly fastening electrical boxes.

FIELDS OF APPLICATION

- **Sealing** water leaks caused by breakages in pipes, tanks, swimming-pools and in any concrete structural element in general.
- Resists high pressures and **guarantees** that water leaks are securely sealed.
- Suitable for application in tunnels, galleries, wells, channels and in general any construction made from concrete building materials.
- It is also widely used for ultra-fast securing of door casings.
- Ideal for ultra-fast securing of handrails, traffic poles, bolts, electrical boxes, runs of electrical corrugated pipes, etc.
- Excellent for repairing **window-sashes**, doors, bolt fixings, etc.
- Excellent in vertical and horizontal repairs, including **against gravity.**

TECHNICAL CHARACTERISTICS

TAPA-VIAS is a fibre-reinforced mortar, modified with quality high-resistance resins. It has controlled retraction and ULTRA-QUICK hardening, and achieves high initial resistances to stretching and compression.

TAPA-VIAS is mixed with water only, producing a mortar with very high resistance to abrasion and bad weather and a flexible technical base which enables it to be used in all the specified applications. Its outstanding features are:

- Very high mechanical resistances in stretching and compression.
- Physical-mechanical characteristics very similar to those of concrete: elasticity, permeability, etc.
- Great adherence to most building materials: concrete, stone, brick.
- Very high resistance to wear.
- Total anti-detachment.
- Being alkaline, it protects frameworks.

HOW TO USE

- **Preparing the substrate:**
  In a water leak: when there is a water leak in a pipe, tank, etc., first try to remove any leftover concrete that is deteriorated, disjointed, not solid or crumbling.
  In fixing items: in this case, remove all leftover dust, paints, waxes, release agents, etc., and open up the hole sufficiently so that the **TAPA-VIAS** can penetrate deeply. Moisten substrates that are highly absorbent or exposed to the sun in hotter months before starting, to keep the anchoring mortar from losing water too quickly.
- **Preparing the mixture:**
  Mix **EXACTLY** 2.0 litres of water with 10 kg of **TAPA-VIAS** or mix 400 cm^3 of water with 2 kg of **TAPA-VIAS**. Mix quickly but BY HAND with a spatula and leave to stand for approx. 2 minutes. **IMMEDIATELY** take a little **TAPA-VIAS** in your hand and form it into a rounded shape ending in a point.
- **Applying the mix**:
  IMMEDIATELY insert the product into the crack in the concrete from where the water is leaking and press very firmly for 40 seconds, until the water ceases

to escape.

- Next remove the excess; clean and make good the area around the hole.
- In applications with considerable sun exposure, when the repair is finished protect the surface by creating artificial shade and/or dampening the surface periodically. This prevents the formation of surface micro-cracks caused by drying too quickly.

CONSUMPTION:	
TAPA-VIAS	1.5 kg for every 1000 cm^3

TECHNICAL SPECIFICATIONS	FIXCER TAPA-VIAS
PRODUCT:	
• Type:	Mortar for sealing water leaks.
• Density of the powder:	1.42 g/cm^3
• Granulometry:	from 0 to 5 mm.
• Toxicity:	Irritant, avoid contact with eyes and skin
• Chloride ion content:	<0.05%
APPLICATIONS	
• Mixing water:	2.0 litres / 10 kg pot
• Density of the mixture:	1.5 g/cm^3
• Applicaion temperature:	+ 5°C to + 35°C
• Usable for:	60-90 seconds
FINAL PERFORMANCE:	
• Resistance to humidity:	excellent
• Resistance to aging:	excellent
• Resistance to solvents:	excellent
• Resistance to wear:	excellent
• Flexibility:	good
STORAGE:	
• In a dry, covered, ventilated place:	12 months
PRESENTATION:	
Supplied in:	10 kg in Grey

Form it into a rounded shape...

...ending in a point, and...

...insert it into the hole, pressing firmly.

FIXCER

EXPANSION JOINTS & HYDRO-EXPANDING JOINTS

FIX-TAPE 170 mm x1,5 mm

Thermoplastic elastomere, elastic strip for moving joints, dilatation joints, fissures,...

WARNING

FIX-TAPE must not be used:

- for other applications without consulting the Technical Dept.
- on dirty surfaces with disjointed parts, left-over paint, etc.
- on surfaces which cannot withstand minimum tension of 1 N/mm^2

Strip: 170 mm x 30 linear metres

FIELDS OF APPLICATION

- Ideal for sealing construction joints, fissures, **expansion joints** to make them completely watertight in industrial flooring, pools, drinking water tanks, terraces, shopping centres, etc. Joining to the substrate with **EPOXICOL** guarantees the adhesion of an epoxy resin and the water resistance of a superelastic strip.
- Waterproofing corners between adjacent wall-wall and/or wall/floor before treating with **HIDROELASTIC**, **HIDROFLEX**,...
- Can be used for different surfaces: mortar, concrete, epoxy resins, aluminium, PVC liners, etc. (but with an appropriate adhesive - please consult).
- Reconstruction of concrete **steps**, ornamental pieces, stone walls, etc.
- Suitable for **sealing cracks**, fissures and joints subjected to high levels of structural movement: bridges, canals, bund walls, etc.

TECHNICAL SPECIFICATIONS

FIX-TAPE is a thermoplastic elastomer with excellent properties.
Its outstanding features are:

- Very high mechanical resistances in flexion and compression.
- High resistance to wear.
- High stretching to breaking point and improved resistance to wear, even at low temperatures.
- High resistance to UV rays.
- Very good resistance to chemicals (see table).
- Resistant to plant and tree roots.
- Simple connection of overlaps with thermal bonding.
- Can come into contact with bitumen.

INSTRUCTIONS FOR USE

- **Preparing the substrate:**
  Cleaning the surface correctly, completely and carefully is the best way of ensuring long-lasting hold. Make sure to remove any crumbling concrete or lumps, unsafe and falling material. Also remove any dust, paint, wax or stripping agents, etc.

- **Applying the strip:**
  First of all, place all of the sections of strip together to ensure you have enough to cover the complete expansion joint.
  FIX-TAPE strips can be joined easily by leaving an overlap of at least 5 cm and applying hot air at 320°C.
  Place the strip inside the expansion joint and hold in place using **SELLALASTIC FOAM**.
  Apply a layer of adhesive to each side of the joint and apply pressure between the strip and adhesive using a hard roller or metallic trowel. In order to ensure perfect hold, at least the felt zone and 2 cm of the strip must be in contact with the adhesive,

leaving the central part clean.
In order to ensure a neat finish, we recommend using masking tape to specify an area just the right width for the adhesive around the expansion joint.

◆ **Choose the right adhesive:**
On mortar or concrete surfaces use **EPOXICOL** adhesive to achieve maximum adherence.
When you are applying a waterproofing layer such **HIDROELASTIC**, **HIDROFLEX**, **HIDROFIX**,... apply a thin layer of this mortar at least 1-2mm thick below the felt area and 2 cm below the strip; then add more mortar to the top.

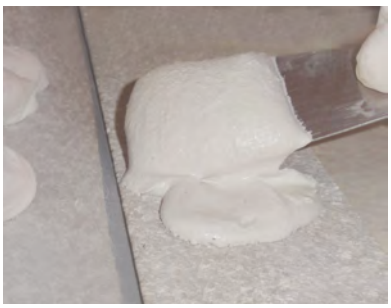
SPECIFICATION:	
Movement:	JOINT WIDTH
25-40mm.	1-35 mm.

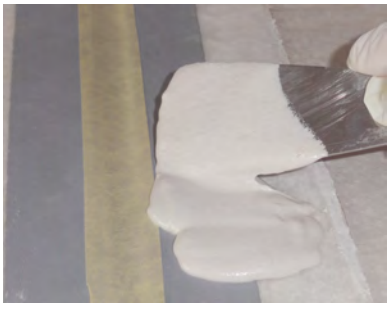
CONSUMPTION:	
FIX-TAPE	depends on linear metres to be joined and overlaps
EPOXICOL	approx. 0.5 - 0.75 kg/ml to obtain a final thickness of 2 mm

TECHNICAL DATA	FIX-TAPE
PRODUCT:	
• Type:	Heat-shrunk elastomer
• Mass:	1100 g/m² (EN 1849-2)
• Thickness:	1,5 mm. (EN 1849-2)
• Toxicity:	No
• Longitudinal breaking force:	140 N / 15mm
• Lateral breaking force:	58 N / 15mm
• Elongation at break:	486 % (EN 527-3)
• Resistance to water pressure:	> 3,0 bar
• Resistance UV:	2480 hours
APPLICATION:	
• Application temperature:	+12°C to +30°C required by adhesive
• Walkable at:	24 hours
CHEMICAL RESISTANCE:	
• resists:	soft solvents and diluted acids
• can not resist:	gasoline, mineral oils and heavy solvents: acetone, hydrocarbons,...
STORAGE:	
• In a dry, covered, ventilated place:	no expiry date
PRESENTATION:	
Supplied in:	170 mm width x 1,5 mm thickness rolls (length 30 m) light grey strips.

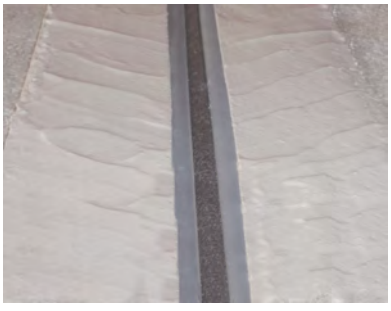

Place the strip along the centre of the joint and make a pleat to be filled with **SELLALASTIC FOAM**.


The masking tape should be around 2 cm from the strip.


Mix p.ex. the **EPOXICOL** and apply a layer of 1 - 2 mm up to the masking tape.


Stick the strip and then add more **EPOXICOL** to the top and sides.


Remove the self-adhesive tape from both sides and also remove the central strip.


This is the end result: a guaranteed waterproof expansion joint.

FUGA-STOP 25x20 mm

Hydro-expanding strip for watertight sealing of building joints.

WARNING

FUGA-STOP should not be used:

- Without respecting all the technical indications for application.
- In cracks in concrete that have been caused by settling. It is not for repairing joints. It is for preventative use.

FIELDS OF APPLICATION

- In construction, **working joints** are a risk for possible water leaks. The use of this hydro-expanding strip ensures that if the water leaks through one of these joints, it will end up reaching the **FUGA-STOP**, which will expand, preventing the progressive advance of the water.
- It is suitable for construction joints, cold joints, screen walls, **concrete joints**, etc.
- It call also be applied in tubes through which pipes are passed, to prevent the always foreseeable leaks between the **PVC and concrete joint**, or on steel-concrete joints.
- Can be applied horizontally as well as vertically.
- Is fully effective in water treatment plants, **car parks**, drinking water tanks, **SWIMMING POOLS**, underground works, waste water treatment plants, and in general, in all work with very high water pressure.
- It is ideal for delicate joints in tunnels, irrigation ditches, galleries, **dykes**, hydraulic works, etc.
- It can be applied in concretes that contain chemically aggressive products or **seawater**.

TECHNICAL SPECIFICATIONS

FUGA-STOP is a hydro-expanding strip made of bentonite modified with butyl rubber.

This kind of joint expands when it comes into contact with water, therefore, its correct function depends on having sufficiently compacted concrete around it. To be able to develop the full force of the expansion it has when coming into contact with water, we recommend having at least 7 cm of concrete around the **FUGA-STOP.**

FUGA-STOP only expands in the direction from which the water arrives. In this way, the rest pf the joint remains in a latent state for any future arrival of water from any side. This special characteristic of bentonite is what guarantees total, permanent watertightness over time, therefore **FUGA-STOP** is different from other joints on the market, which absorb water throughout the mass and therefore expand equally in all directions, creating unnecessary tension in the concrete and leaving the joint without the possibility to react to future leaks.

APPLICATION

- **Support:**
  All supports must always be resistant, solid, free from dust and rubbish. The area need not be dry, but it must be free from puddles of water.

◆ **Application of the strip:**

- Place the strip in a continuous line in the middle of the joint, along its entire length.
- Usually you can use **MASTIC MS** or-nails or screws to prevent it from moving when the concrete is added. This is also the simplest way of positioning it when installing it in vertical joints.
- **FUGA-STOP** must be stuffed in compactly with a minimum of 7 cm of concrete covering it all round.
- **FUGA-STOP** has a delayed expansion that enables it to resist 48 hours in water without expanding unduly. This means that it can tolerate the contact with new wet concrete until it has done the first setting.
- In the parts where one roll joins another, you can either simply carry on, starting the new roll where the old one ends, or overlap the ends by about 3 cm. In the case of the latter, you must ensure there will be at least 7 cm of concrete around the two strips.

CONSUMPTION:

This is directly proportional to the number of linear metres to be sealed, however, we recommend adding a few extra metres in case you decide to overlap the ends of the rolls.

TECHNICAL SPECIFICATIONS

PRODUCT	
• Type:	bentonite modified with butyl rubber
• Appearance:	black elastic strip
• Measurements:	25 x 20 mm.
• Density:	1.50 g/cm^3
• Toxicity or inflammability:	NO
• VOC:	< 0.1%
APPLICATION	
• Temperature of application:	from -15ºC to + 60ºC
PERFORMANCE PROPERTIES	
• Exposure temperature:	from -45° C to +120° C
• Expansion pressure:	0.82 N/mm^2
• Elongation:	300%
• Maximum expansion:	300% (at 10 days after immersion)
• Resistance to hydrostatic pressure:	column of water greater than 80 m.
STORING	
• In covered, well-ventilated places, storing in its original container, making sure it is well closed:	practically without limit.
PRESENTATION	
• Is supplied in:	boxes that contain 6 x 5 ml strips. (30 ml)

FUGA-STOP MINI 20x10mm

Hydro-expanding strip for watertight sealing of building joints.

FIELDS OF APPLICATION

- In construction, **working joints** are a risk for possible water leaks. The use of this hydro-expanding strip ensures that if the water leaks through one of these joints, it will end up reaching the **FUGA-STOP MINI**, which will expand, preventing the progressive advance of the water.
- It is suitable for construction joints, cold joints, screen walls, **concrete joints**, etc.
- It call also be applied in **PVC tubes** , to prevent the always foreseeable leaks between the **PVC and concrete joint**, or on steel-concrete joints.
- **FUGA-STOP MINI** is perfect for the perimeter wall behind the **S-9 ROSA GRES SYSTEM.**
- Can be applied horizontally as well as vertically.
- Is fully effective in drinking water tanks, **SWIMMING POOLS**, underground works and in general, in all work with very high water pressure.
- It can be applied in concretes that contain **seawater**.

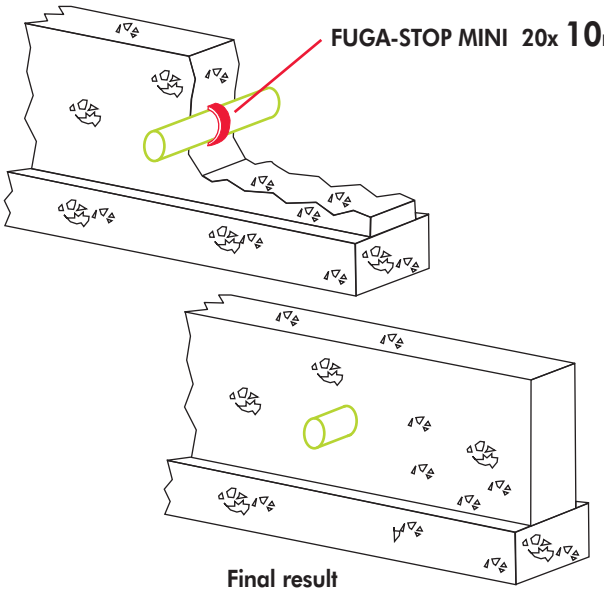
APPLICATION

- **Support:**
  All supports must always be resistant, solid, free from dust and rubbish. The area need not be dry, but it must be free from puddles of water.

- **Application of the strip:**
  - Place the strip in a continuous line in the middle of the joint, along its entire length.
  - Usually you can use **MASTIC MS** to prevent it from moving when the concrete is added. This is also the simplest way of positioning it when installing it in vertical joints.
  - **FUGA-STOP MINI** must be stuffed in compactly with a minimum of 4cm of concrete covering it all round.
  - **FUGA-STOP MINI** has a delayed expansion that enables it to resist 48 hours in water without expanding unduly. This means that it can tolerate the contact with new wet concrete until it has done the first setting.
  - In the parts where one roll joins another, you can either simply carry on, starting the new roll where the old one ends, or overlap the ends by about 3 cm. In the case of the latter, you must ensure there will be at least 4cm of concrete around the two strips.

EXAMPLES OF APPLICATION

1ST.- PVC TUBES and CONTRETE joint:



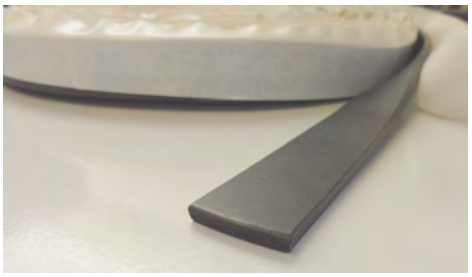
Final result

Put FUGA-STOP MINI around the PVC tube ...

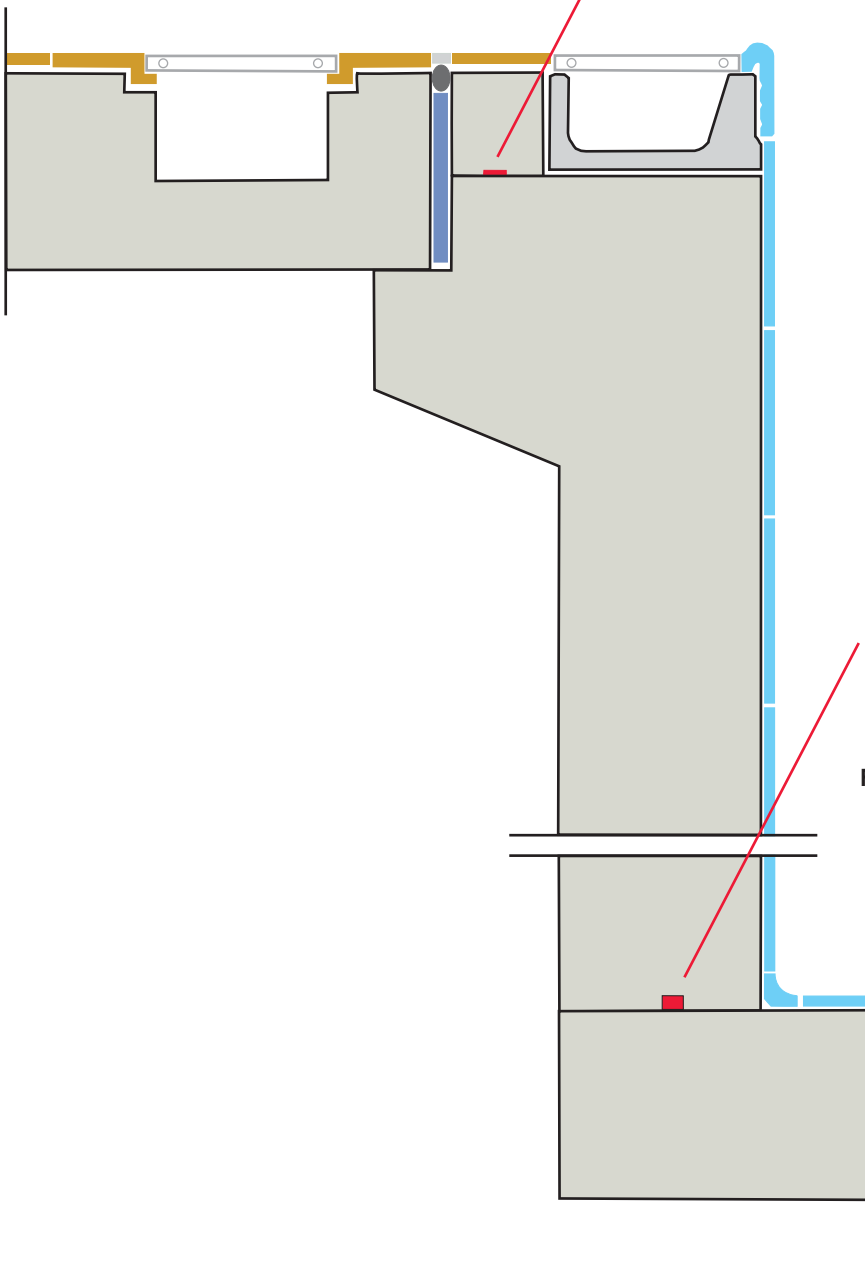
... and use MASTIC MS to fix it.

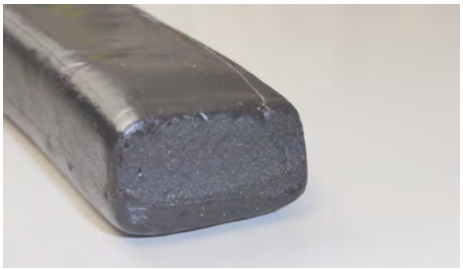
EXAMPLES OF APPLICATION

2ND.- For the perimeter wall behind the S-9 ROSA GRES SYSTEM:



FUGA-STOP MINI 20x 10mm.





FUGA-STOP 25x20mm.

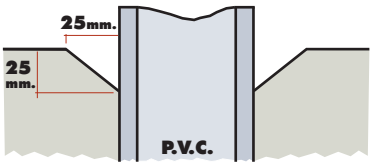
SELLADOR S10

Polyurethane filler with EXTRAORDINARY ELASTICITY: over 800%. Ideal for end EXPANSION JOINTS.

WARNING

Do not use **SELLADOR S10**:

- On wet or dirty substrates or substrates impregnated with grease or repellents.
- On plaster or plasterboard panels without first conducting preliminary tests.
- **SELLADOR S10** contains isocyanates, and must therefore be kept out of the reach of children.
- On absorbent substrates without first applying **IMPRIMACION SELLADOR S10.**



FIELDS OF APPLICATION

1) Perfect, super-elastic sealing in **expansion joints**.
2) Safe sealing of **Rosa Gres Sistema 10®** panels watertightness, adhesion and maximum flexibility:
3) Ideal for use in **extreme cases:** radiant floors, cold storage rooms at -30°C, façades exposed to heat, cold and damp, etc.
4) Ideal for **sealing PVC** wall ducts in public or private pools.
3) Ideal for **sealing fissures** in concrete in pools, tanks, etc.
4) Also suitable for use in **aluminium carpentry, glazing and wooden carpentry**.
5) Its extremely low module makes it **highly elastic** and perfect for application in interiors and exteriors, even those subject to strong vibrations.
6) It is resistant to oil and grease and does not corrode surfaces; **waterproof and prevents the development of fungus**.

TECHNICAL CHARACTERISTICS

SELLADOR S10 is a high quality polyurethane elastomer specially indicated to respond to the technical requirements of the **Rosa Gres Sistema 10®**: adhesion,watertightness, durability and resistance to pool water. These characteristics also make it idea for sealing expansion joints subjected to extreme stress: cold storage rooms at -30°C, radiant floors, façades exposed to hot summers and bitterly cold winters, etc. etc.

On ABSORBENT substrates apply **IMPRIMACION SELLADOR S10 first**.

HOW TO USE

- **Substrate:**
  All contact substrates must be resistant, solid, free from powder, paint, wax, oil and grease and perfectly hardened (on concrete: 4 weeks)

- **Applying the primer:**
  El **SELLADOR S10** can be applied to NON-absorbent substrates without applying a primer (aluminium, glass...), and ABSORBENT substrates after first applying the **IMPRIMACIÓN SELLADOR S10** product (on concrete, mortar, wood, tiles and bricks) • Apply with a brush until the substrate is completely saturated. It is ESSENTIAL to perform this operation EFFICIENTLY.

- **Applying the filler:**
  - Allow **IMPRIMACION SELLADOR S10** to dry from 1 to up to 4 hours.
  - Cut the tip of the tube with a pair of scissors and place the tube inside the special gun for this type of container.
  - Cut the pipe to the required diameter and inclination.

- Apply the product, **ensuring it penetrates** well and **that it comes into contact with the sides** of the joint, concrete or fissure, etc. that is to be sealed.

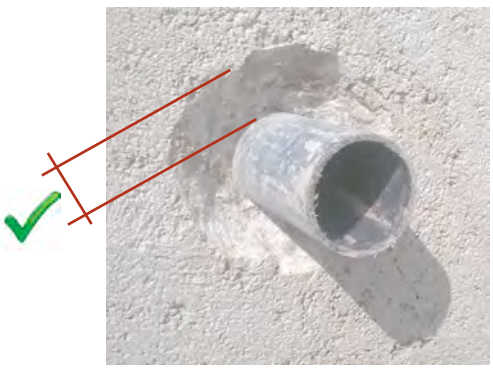
◆ **Use as a filler for expansion joints:**
Three basic points are recommended:

1) The depth of the joint must never exceed its width.
2) It is recommended to make expansion joints of10 to 20 mm in width by 10 mm in depth.
3) If the depth exceeds the recommended 10 mm, fill in the space with **SELLALASTIC FOAM**.

Other useful tips:

a) If the joint is very wide, apply the filler in three successive applications: the first two near the sides of the joint and the third, in the centre.
b) It can be smoothed using a suitable tool and a little soapy water.
c) It is advisable to use bodywork tape to ensure the perfect finish of the joint.
Remove the tape while the filler is still soft.

Open the area around the pipe in a "V" shape. THIS WIDTH IS INSUFFICIENT!!



This WIDTH and this DEPTH are correct.

CONSUMPTIONS for one EXPANSION JOINT:				
IMPRIMACION SELLADOR S10:	0,2 l./m2 » 0,004 l./ml.			
	Joint width			
	8 mm.	10 mm.	15 mm.	20 mm.
SELLADOR S10: For a depth of 10 mm:	7,4 ml. /tube	6,0 ml. /tube	3,8 ml. /tube	2,9 ml. /tube

TECHNICAL SPECIFICATIONS	SELLADOR S10	SELLALASTIC FOAM
STANDARDS:	EN 15651-1 & EN 15651-4	
PRODUCT:		
• Type:	F-EXT-INT & PW-INT: A highly elastic polyurethane elastromer-based filler.	Closed cell polyethylene foam cord.
• Density:	1,3 g/cm^3	23 kg/m^3 DIN 53420
• Toxicity:	Contains isocyanates: avoid contact with skin. If the product enters the eyes, wash them immediately with water.	Harmless
APPLICATION:		
• Application temperature:	+ 1°C to + 30°C	+ 1°C to + 40°C
• "Skin"-forming time:	15 min. (+20°C-65%hr)	------
• Polymerisation speed:	3 mm. every 24 h. (+20°C-65%h.r.)	------
FINAL PERFORMANCE:		
• Shore A hardness:	40 ± 5	------
• Elasticity module:	0,6 N/mm^2	------
• Lengthening up to breakage:	> 600%	65%
• Elastic recovery:	> 80%	------
• Movement capacity:	15%	------
• Permitted temperature range:	-30°C to +90°C.	-40°C to +60°C.
• Chemical resistance:	to water, clearing agents, occasional contact with oil, hydrocarbons, acids or diluted alkalis.	do not apply with hot asphalt fillers at over +70°C.
• Resistance to UV radiation:	The sensitivity of polyurethane to UV radiation causes a slight deepening of the "colour" of the joint, but without modifying its physical properties.	unlimited
• Resistance to traction:	------	2.2 kg/cm^2
STORAGE:		
• In a dry, ventilated place at temperatures of between +5°C and +25°C (never below +0°C).	12 months from the date of manufacture.	unlimited
PRESENTATION:		
• Supplied in:	600 ml tubes in cement grey.	In grey and sold by linear metres. Available in diameters of 15 mm, 20, 25, 30 and 40 mm.

TECHNICAL SPECIFICATIONS	IMPRIMACION SELLADOR S10
PRODUCT:	
• Type:	Clear polyurethane liquid
• Density:	1.03 g/cm^3
• Toxicity:	Toxic for aquatic organisms. Do not breathe in.
STORAGE:	
• In a dry, ventilated place at temperatures of between 5°C and +25°C:	12 months
PRESENTATION:	
• Supplied in:	500cm^3 and 1 lt. containers.

SELLAFIX

Self-levelling, three-component ELASTIC, ANTI-ACID polyurethane sealant for EXPANSION JOINTS.

WARNING

SELLAFIX should not be used:

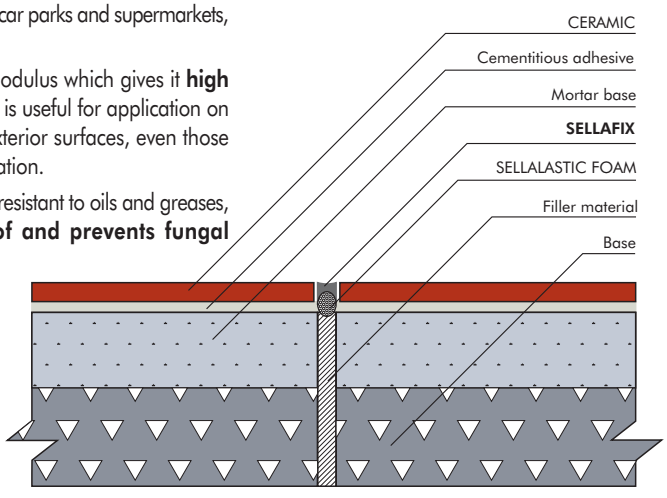
- On damp or dirty surfaces, or surfaces which are oily or have had repellent surfaces applied.
- On walls (use **SELLALASTIC** or **SILICONA NEUTRA**)
- On slopes of more than 1%: this is a self-levelling product (use **SELLALASTIC** or **SILICONA NEUTRA**)
- Doing a parcial mix: the product is in a pre-measured format. Mix the three components without carrying out partial mixtures.

FIELDS OF APPLICATION

1) A perfect elastic sealant and anti-acid product for **expansion joints**.
2) This product has a long-lasting safe adherence for surfaces such as **ceramic tiles**, **concrete**, **mortar**, etc. without previous preparation.
3) Ideal for cold storage areas, swimming pool surrounds, laboratories, the chemical industry, the food industry, cracks in concrete supports, car parks and supermarkets, etc.
4) It has a low modulus which gives it **high elasticity**, and is useful for application on interior and exterior surfaces, even those subject to vibration.
5) The product is resistant to oils and greases, **is waterproof and prevents fungal growth**.

TECHNICAL FEATURES

SELLAFIX is a high-quality modified polyurethane which is especially suitable for expansion joints which are subject to compression and expansion and contact with abrasive chemicals. The product hardens rapidly and has excellent adherence to all construction materials from non-absorbent smooth surfaces to the roughest, absorbent materials.



HOW TO USE

- **Bases:**
  All contact surfaces must be resistant, solid, free from dust, paint, wax, oils and fat, and must have hardened perfectly (4 weeks for concrete).
- **Product Application:**
  - Mix the three, pre-measured dosed components: a large bottle, a small bottle and a bag of powder.
  - Mix with a low-speed electric mixer
  - Protect the sides of the expansion joint with masking tape.
  - Put **SELLAFIX** into the joint.
  - Remove the masking tape and the joint is ready to use.
- **Three basic points must be taken into account:**
  1) The depth of the joint should not exceed its width.
  2) Use is recommended with expansion joints of 10 mm to 20 mm width by 10 mm deep.
  3) If the depth exceeds 10 mm, we recommend filling the joint first with **SELLASTIC FOAM.**

Other recommendations to take into account:

a) Although the joint may be wide, **SELLAFIX** can be applied in a single application. The product flows and fills pre-established areas without shrinkage.

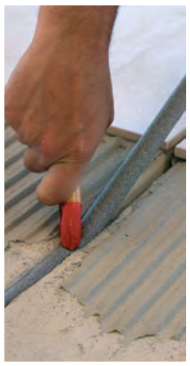
b) Pay special attention to empty cavities which may be found below tiled surfaces. This self-levelling product will tend to fill them, thus lowering the final level of the seal.

CLEANING OF THE REMAINDERS AND TOOLS

Solvent or alcohol may be used before hardening. After hardening **SELLAFIX** can only be removed mechanically.

PAINTING OF THE JOINTS:

The joint may be painted only when the product has completely dried. Acrylics, vinyl or enamel paints are recommended. Test beforehand.



CONSUMPTION:

	Width of the joint			
	8 mm	10 mm	15 mm	20 mm
For a joint measuring 10 mm deep	0.12 Kg./ml.	0.15 Kg./ml.	0.23 Kg./ml.	0.30 Kg./ml.

TECHNICAL DATA:

	SELLAFIX	SELLALASTIC FOAM
PRODUCT DETAILS		
• Type:	PW-INT: modified polyurethane filler with high elasticity and chemical resistance	Closed cell polyethylene foam cord
• Density:	1.5 g/m^3	23 kg/m^3 DIN 53420
• Toxicity:	Reactive resin filler. Avoid skin contact. If the product comes into contact with the eyes clean immediately with water and seek medical attention. Keep out of the reach of children	Harmless
APPLICATION		
• Application temperature:	+5°C to + 40°C	+5°C to + 40°C
• Skin formation time:	75 min (+23°C-50%hr)	------
• Pot life:	30 min (+23°C-50%hr)	------
FINAL PERFORMANCE		
• Elongation at breakage:	------	65%
• Step-on time:	24 hours	Immediate
• Permitted temperature range:	-40°C to +100°C	-40°C to +60°C
• Chemical resistance:	To water, cleaning products, sporadic contact with oils, hydrocarbons, acids or dilute alkaloids	Must not be applied with hot asphalt fillers at temperatures above +70°C
• UV resistance:	The sensitivity of polyurethanes to UV light causes a slight increase in colour tone to the joint, its physical properties are not affected.	Unlimited
• Resistance to traction:	$\geq$2.0 N/mm^2	0.22 N/mm^2
• Shear strength:	$\geq$2.0 N/mm^2	------
STORAGE		
• In dry, well-ventilated places and at temperatures between +5°C and +30°C (never below +0°C):	48 months from the date of manufacture	Unlimited
PRESENTATION		
• Supplied in:	3kg, pre-dosed formats and 12kg pre-dosed formats with 4 units of 3 kg in "cement grey" color.	Grey color and sold by linear meter.

SELLALASTIC

Highly elastic Polyurethane putty ideal for EXPANSION JOINTS.

WARNING

SELLALASTIC should not be used:

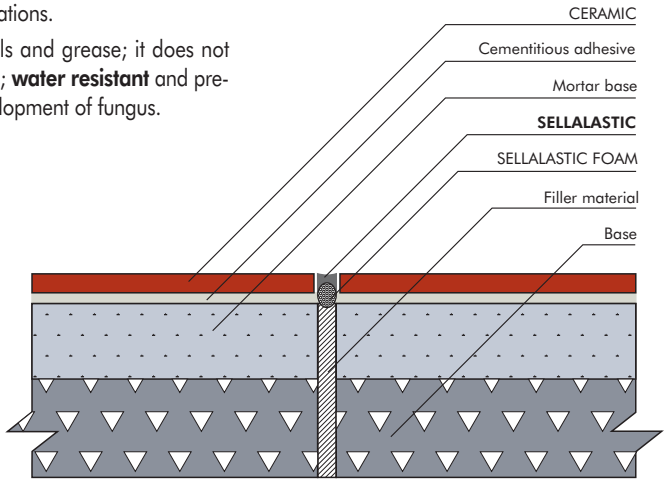
- On wet, dirty or surfaces soaked in grease or repellent substances.
- On plaster or Pladur panels without having performed the necessary tests.
- **SELLALASTIC** contains Isocianats, therefore it should not be left within the reach of children.
- When you need a perfect **elastic sealant** and **anti-acid product:** use **SELLAFIX**.

FIELDS OF APPLICATION

1) Perfect elastic sealing of **expansion joints**.
2) Lasting and secure bonds in construction elements such as **ceramic**, **concrete**, **mortar**, **etc.** without requiring a previous priming.
3) Also suitable for use in **aluminium**, **glass and woodworks**.
4) Thanks to its low module it is **very elastic**, suitable for indoor and outdoor use, subject to intense vibrations.
5) Resistant to oils and grease; it does not erode surfaces; **water resistant** and prevents the development of fungus.

TECHNICAL FEATURES

SELLALASTIC is a high quality polyurethane elastomer, specially suitable for expansion joints subject to intense compression-expansion efforts. Dries quickly and adheres very easily to all construction materials ranging from smooth and non-absorbent ones to the most wrinkled and absorbent.



HOW TO USE

- **Surfaces:**
  All contact surfaces must be resistant, solid, free of dust, paint, wax, oils and grease and must be thoroughly hardened (concrete: 4 weeks)

- **Application of the putty:**
  - Drill the inner seal on one side of the cartridge.
  - Cut the cannulae to the wished for diameter and slant.
  - Apply the product with a pistol suitable for standard 310 ml tube.

- **Use as putty for expansion joints:**

Three basic points are recommended:

1) The depth of the joint must never exceed the width.
2) We recommend expansion joints measuring between 10 and 20 mm wide by 10mm deep.
3) If the depth exceeds the recommended depth of 10mm, fill in the remaining cavity with some elastic element such as porexpan, gum,... (refer to attached drawing)

Other suggestions to bear in mind:

a) If the joint is very wide, apply the putty in three successive coats: the first two close to the sides of the joint and the third coat in the centre.

b) the surface can be smoothened by using a suitable tool and by applying a small amount of soapy water.

c) It is always very useful to use coachbuilder's tape to ensure a perfect joint. The coachbuilder's tape is withdrawn while the putty is still fresh.

◆ **Use as an adhesive:**
In those cases when it is used to bond, apply the product on the sides to be bonded, spread and press both very sides firmly during the drying period.

CLEANING OF THE REMAINDERS AND TOOLS

Universal thinner can be used while **SELLALASTIC** is fresh. Once **SELLALASTIC** has fully polymerised, the remains can only be removed by means of a mechanical device.

PAINTING OF THE JOINT

The joint can be painted once it is fully dry. (polymerisation speed: 3 mm of thickness every 24 hours). We recommend the use of paints dispersed in acrylic or vinyl bases, following testing.

CONSUMPTION:

	Width of the joint			
	8 mm	10 mm	15 mm	20 mm
Depth of the joint 10 mm.	3.8 ml./cartridge	3.1 ml./cartridge	2.0 ml./cartridge	1.5 ml./cartridge

TECHNICAL DATA

	SELLALASTIC	SELLALASTIC FOAM
NORM	**EN 15651-4**	
PRODUCT DETAILS		
• Type:	PW EXT-INT CC: modified polyurethane fillerwith high elasticity and chemical resistance	Closed cell polyethylene foam cord
• Density:	1.2 g/m^3	23 kg/m^3 DIN 53420
• Toxicity:	Reactive resin filler. Avoid skin contact. If the product comes into contact with the eyes clean immediately with water and seek medical attention. Keep out of the reach of children	Harmless
APPLICATION		
• Application temperature:	+5° C to +40°C	+5° C to +40°C
• Skin formation time:	75-105min (+23°C-50%hr)	------
• Speed of polymerisation:	3 mm thickness every 24 hours (+23°C and 50% relative humidity)	------
• Resistance to drooping at 23°C:	< 3 mm.	------
• Resistance to drooping at 50°C:	< 3 mm.	------
FINAL PERFORMANCE		
• Shore A hardness:	35	------
• Elasticity:	0.35 MPa	------
• Elongation at breakage:	250%	65%
• Elastic recovery:	> 70%	------
• Movement capacity:	25%	------
• Permitted temperature range:	-20° C to +80°C	-40° C to +60°C
• Chemical resistance:	To water, cleaning products, hot sporadic contact with oils, hydrocarbons, acids or dilute alkaloids	Must not be applied with asphalt fillers at temperatures above +70°C
• UV resistance:	The sensitivity of polyurethanes to UV light causes a slight increase in colour tone to the joint, its physical properties are not affected.	Unlimited
• Resistance to traction:	------	0.22 N/mm^2
STORAGE		
• In dry, well-ventilated places and at temperatures between +5°C and +30°C (never below +0°C):	12 months from the date of manufacture	Unlimited
PRESENTATION		
• Supplied in:	White color, medium grey, brown and black color, and the cartridge contains 310 ml.	Grey color and sold by linear meter. Diameters: 15, 20, 25, 30 mm. and 40 mm.

NEUTRAL SILICONE

MOULD-RESISTANT silicone especially for bridging and expansion joints in bathrooms, screens, toilets, mirrors, etc. It is not corrosive to aluminium and is completely odourless.

WARNING

SILICONA NEUTRA must not be used:

- On wet or dirty substrates or substrates impregnated with grease or repellents.
- For GENERAL fixing jobs: it is much better to use **MASTIC MS**.
- For filling large cracks or sections: use **SELLADOR S10**.
- For other jobs without carrying out tests.

FIELDS OF APPLICATION

1) **Extremely elastic** sealant for **expansion joints** in bathrooms our outdoors and swimming pools.
2) **Sealant** in the methyl acrylate-aluminium joint in **bathroom screens:** watertightness, adhesion and maximum flexibility.
3) **Sealant** in the joint between **bath and tiles,** and generally in watertight joints between bathroom ceramic and tiles.
4) **Sealant** for the joint between **mirror and ceramic** when recessed: does not attack the metal surface whether it be tin or mercury.
5) **Sealant** between PVC elements, between ceramic, marble, **stainless steel**,...
6) **Fixing** ceramic tiles **directly onto mortar** or concrete with no primer.
7) Its extremely low module makes it highly **elastic and perfect** for application in interiors and exteriors, even those subject to strong vibrations.
8) Does not attack surfaces; **it is totally waterproof and helps avoid mould formation**.

TECHNICAL CHARACTERISTICS

SILICONA NEUTRA is made only of the highest-quality raw materials, does not contain solvents and is completely odourless. It is environmentally-friendly and with the applicator it contains 0% volatile materials. Its characteristics are unique:

. Highly elastic and totally waterproof
. Highly adhesive on clean surfaces
. Mould-resistant
. Does not shrink
. Does not attack aluminium or mirrors
. Resistant to UV rays: perfect for outdoor use

Sealing between bathroom furniture and wall or floor tiles.

HOW TO USE

- **Substrate:**
  All contact substrates must be resistant, solid, free from powder, paint, wax, oil and grease and perfectly hardened and dry (on concrete: 4 weeks)

- **Application of the filler:**
  - Cut the pipe to the required diameter and inclination. Cut the tip using scissors or sharp knife and introduce the cartridge into the application gun designed for this kind of product.
  - Apply the product, ensuring it **penetrates well** and that it **comes into contact with the sides** of the joint, concrete or fissure, etc. that is to be sealed.

- **Use as a filler for expansion joints:**
  Three basic points are recommended:
  1) The depth of the joint must never exceed its width.
  2) It is recommended to make expansion joints of 10 to 20 mm in width by 10 mm in depth.

3) If the depth exceeds the recommended 10 mm, fill in the space with **SELLALASTIC FOAM**.

Other useful tips:

a) If the joint is very wide, apply the filler in three successive applications: the first two near the sides of the joint and the third, in the centre.

b) It can be smoothed using a suitable tool and a little soapy water.

c) It is advisable to use bodywork tape to ensure the perfect finish of the joint. Remove the tape while the filler is still soft.

Sealing joints between spa bath and wall.

Sealing joints between **recessed mirrors** and surrounding ceramic.

AMOUNTS for one EXPANSION JOINT:				
IMPRIMACION SELLADOR S10:	0.2 l/m^2 » 0.004 l/ml			
	Joint width			
SILICONA NEUTRA: For a depth of 10 mm:	8 mm	10 mm	15 mm	20 mm

TECHNICAL SPECIFICATIONS	SILICONA NEUTRA	SELLALASTIC FOAM
STANDARDS:	EN 15651-1/2/3	
PRODUCT:		
• Type:	Trans: F-EXT-INT-CC; G-CC; S Color: F-EXT-INT-CC; G-CC Neutral, solvent free.	Closed cell polyethylene foam cord.
• Density:	Trans:1.0 ; Color:1.37 g/cm^3	23 kg/m^3 DIN 53420
• Toxicity:	Contains polysiloxane non-toxic but has been shown to provoke irritation in very sensitive individuals.	Harmless
APPLICATION:		
• Application temperature:	+ 5°C to + 40°C	+ 1°C to + 40°C
• "Skin-forming" time:	Trans: <15; Color: <20min.	------
• Polymerisation speed:	2.0-3.0 mm. thickness every 24 hours (+23°C-50%h.r.)	------
FINAL PERFORMANCE:		
• Shore A hardness:	Trans: 24 ± 5; Color: 27 ± 5	------
• Elasticity module:	Trans: 0.35; Color: 0.40N/mm^2	------
• Lengthening up to breakage:	Trans: 300%; Color: 250%	65%
• Shrinkage:	0%	------
• Movement capacity:	25%	------
• Permitted temperature range:	-40°C to +150°C	-40°C to +60°C
• Paintable:	No	------
• Chemical resistance:	to water, clearing agents, occasional contact with oil, acids or diluted alkalis.	do not apply with hot asphalt fillers at over +70°C
• Resistance to UV radiation:	totally resistant: perfect for outdoor use.	Unlimited
• Tensile strength:	Trans: 0.5; Color: 0.6 N/mm^2	2.2 kg/cm^2
STORAGE:		
• In a dry, ventilated place at temperatures of between 5°C and 25°C (never below 0°C):	12 months from the date of manufacture.	unlimited
PRESENTATION:		
• Supplied in:	Cartridges of 310 ml in various colours (please consult us) and in GLASS transparent	In grey and sold by linear metres. Available in diameters of 15, 20, 25, 30 and 40 mm

TECHNICAL SPECIFICATIONS	IMPRIMACION SELLADOR S10
PRODUCT:	
• Type:	Clear polyurethane liquid
• Density:	1.03 g/cm^3
• Toxicity:	Toxic for aquatic organisms. Do not breathe in.
STORAGE:	
• In a dry, ventilated place at temperatures of between 5°C and 25°C:	12 months
PRESENTATION:	
• Supplied in:	500cm^3 and 1 lt. containers.

FIXCER

LATEX ADHESIVES or WATERPROOFING

ADIFLEX

Latex for improving the FLEXIBILITY, adhesion and impermeability of cementitious adhesives

WARNING

ADIFLEX should not be used:

- On surfaces subject to vibrations or **extreme** bending (use **ELASTICER**).
- Out of the admissible temperature range.
- Do not use it for laying slabs in swimming-pools (use **TECNOCOL FLEX**).

FIELDS OF APPLICATION

- It is always used as a **substitute** for WATER in the mix with cementitious adhesive.
- Mixed with cementitious adhesives produces a **flexible adhesive** suitable for the most demanding loads.
- For laying ceramic tiles, all types of mosaics, marbles or slates, even in large formats, in floorings and facings, in both INTERIORS and EXTERIORS.
- Tiles on integral heating installations, or on cooling systems.
- Ideal for tiling **exteriors**, such as facades, balconies, terraces and areas exposed to contraction-dilation movements of ceramic materials.
- Tiles on prefabricated-concrete walls.
- Tiles on substrates subject to vibrations and/or bending.

TECHNICAL SPECIFICATIONS

ADIFLEX is a liquid formed of polymers in aqueous dispersion which, mixed with hydraulic additives and their compounds, improves their flexibility, adhesion and resistances to compression and traction.

On floorings and facings, in interiors and exteriors

INSTRUCTIONS FOR USE

- **Substrate:**
  All substrates should always be resistant, solid and free of dust, paint, wax, oils, grease, etc. They should also be perfectly hardened.

  Moisten substrates that are highly absorbent or exposed to the sun in hotter months before starting to keep the mixture from loosing water to quickly.

- **Preparing the mixture:**
  Mix approximately 5-6 litres of **ADIFLEX** with each 25 Kg. of cementitious adhesive (e.g. **FIXACER** or **FIXSET FLEX**); use an electric mixer at a low rpm to prevent the formation of lumps. Leave to stand for 5 minutes and re-mix. The paste is then ready to use.

- **Applying the mixture:**
  It is better to use a notched trowel, adjusting the size of the notches depending on the size of the pieces to lay.

  You do not need to wet the pieces before laying them.

  In difficult or outdoor applications, use the double-pasting technique.

To adhere pieces larger than 30x30cm., or of more than 40 Kg/m^2 also use a metal fixing or similar.

Use the tips of your fingers periodically to make sure that a skin has not formed on the surface. If a skin has formed, re-spread the adhesive with a notched trowel (never wet with water).

Always apply pressure to the tile to make sure a proper bond is established. Tap on the pieces with a rubber mallet. Protect the freshly laid tiles from excessive heat, sub-zero temperatures, rain, etc. for at least 24 hours after their placement.

◆ **Sealing the joints:**
We recommend the use of a specific material like **FIXCOLOR** (fine or thick grain), **EUROCOLOR FLEX** or **CERPOXI** or **PROFESSIONAL PX**.
Use **SELLALASTIC** or **SILICONA NEUTRA** on the expansion joints.

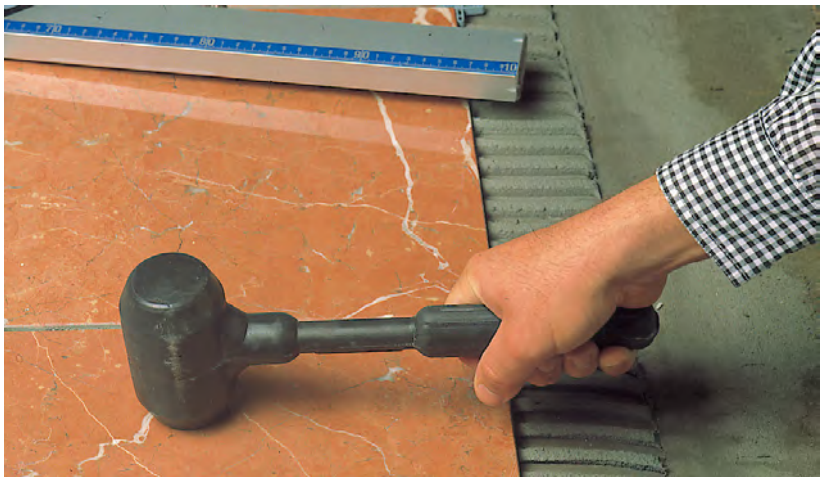
CONSUMPTION:

	FIXACER	ADIFLEX
Mosaics up to 5 cm x 5 cm.:	approx. 2.5 kg/m^2	approx. 0.5 l/m^2
Tile up to 15 cm x 15 cm.:	approx. 2.5-3.0 kg/m^2	approx. 0.5-0.6 l/m^2
Large-size tiles:	approx. 4.0 kg/m^2	approx. 0.8 l/m^2

TECHNICAL SPECIFICATIONS

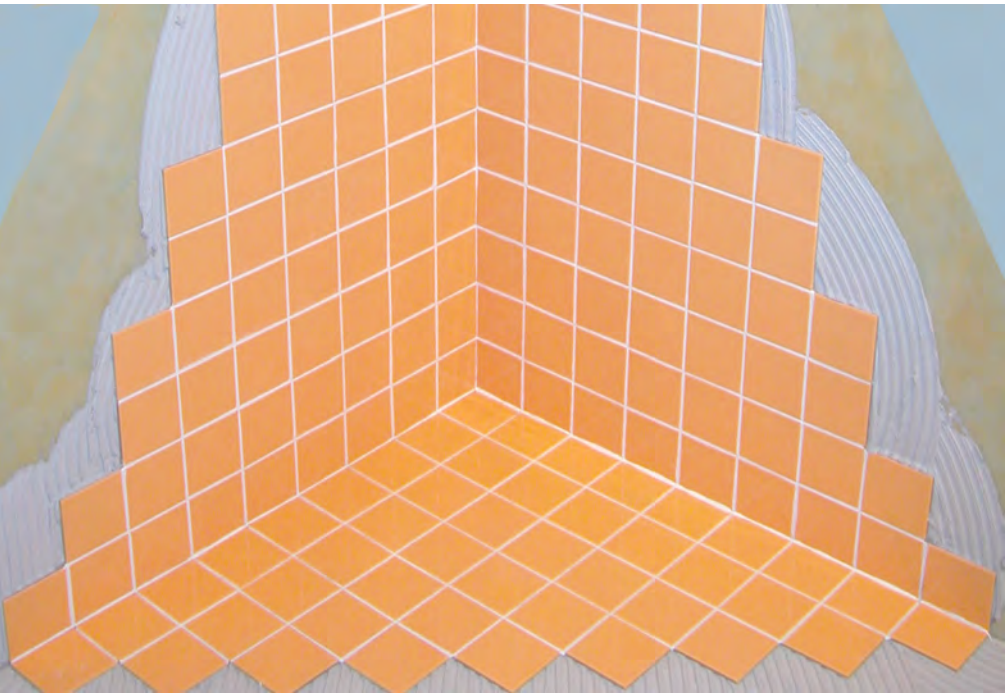
DIRECTIVES	**EN 12.004** (with FIXACER)
PRODUCT	
• Type:	Aqueous dispersion of synthetic polymers. Mixed with FIXACER produces a C2 T adhesive
APPLICATION	
• Proportion of mixture (with FIXACER):	5-6 litres ADIFLEX + 25 kg FIXACER
• Density of mixture (con FIXACER):	1,5 g/cm^3
• Application temperature:	+ 5° C a + 35° C
• Open time:	20 min.
• Adjustment time:	45 min.
• Pot life:	2 hours
• Slippage:	< 0.5 mm.
• Thickness of layer:	< 10 mm.
• Sealing after:	24 hours
• Ready after:	48 hours
FINAL PERFORMANCE	
• Resistance to aging:	excellent
• Resistance to solvents:	good
• Flexibility:	excellent
• Initial adhesion:	≥ 1,0 N/mm^2
• Adhesion after immersion in water:	≥ 1,0 N/mm^2
• Adhesion after ageing through heat:	≥ 1,0 N/mm^2
• Adhesion after freezing-thawing cycles:	≥ 1,0 N/mm^2
• Pot life: adhesion (20 min):	≥ 0,5 N/mm^2
STORAGE	
• In places that are covered ventilated, keeping it in its originalcpackaging:	12 months
PRESENTATION	
• Supplied in:	5 l and 25 l drums

Mixed with **FIXACER** flexible, very high-performance adhesive is obtained.


Pack the pieces solidly to ensure good bonding.

HIDROPRIMER and HIDROFACIL

Waterproofing of showers and baths.



FIELDS OF APPLICATION

1) **HIDROPRIMER** is a prime for absorbent bases or surfaces such as: gypsum wallboard plaster-board, plaster coats, plaster-bricks, concrete or porous mortars, lime coatings, wood agglomerate boards... **HIDROPRIMER** is always used before applying **HIDROFACIL**.
2) **HIDROFACIL** is a **very elastic** paste to waterproof walls and floors in damp areas such as bathrooms, kitchens, quartering areas, health/fitness installations, car washes, etc **without** stagnation or water pressure.
3) **HIDROFACIL** is continuous waterproofing, **without overlaps**, guaranteeing imperviousness.
4) **HIDROFACIL** is very resistant to water seepage and is permeable to the diffusion of vapour therefore eliminating any risk of water accumulation.
5) **HIDROFACIL** protects sensitive surfaces such as plaster and gypsum wallboard plaster-board from humidity
6) **HIDROFACIL** is suitable for areas that require class I and II resistance to humidity according to the ZDB (showers without a base and health/fitness areas in public and industrial areas with drains installed in the floor, without water accumulation).
7) Applicable **indoors and outdoors**.
8) It can also be applied on floors fitted with radiant heating.
9) **HIDROFACIL** is not a finishing product. It must always be protected by gluing ceramic pieces to it with flexible cement glue.

TECHNICAL FEATURES

HIDROPRIMER is a dispersion of synthetic polymers to prime absorbent bases before such are coated with **HIDROFACIL**.

HIDROFACIL is an **ultra-flexible** prepared paste that is thinner free to **continuously waterproof** vertical or horizontal surfaces that will be lined with ceramic tiles glued with flexible cement glue.

WARNING

- Do not apply it on porous surfaces unless previously coated with **HIDROPRIMER**.
- Do not apply on swimming pools (use **HIDROFIX**)
- Do not use as a finishing product. It needs to be protected with cement glue and ceramic tiles.
- Do not apply to tanks, flower troughs, ponds, dikes, or places where the object is to retain water. (use **IMPERTOT**)

INSTRUCTIONS FOR USE

- **Surface:**

All surfaces will always be solid, flat, free of dust, paint, wax, oils and grease. In addition, those surfaces that are made mainly of plaster must not exceed a level of humidity of < 0,3%, and those surfaces made mainly from mortar cannot exceed a level of humidity of < 0,5%.

- **Application:**

Step number 1:

On absorbent surfaces such as: gypsum wallboard plaster-board, plaster-coats, plaster-bricks, concrete or porous mortar, lime coating, wood agglomerate boards... apply a sole coat of **HIDROPRIMER** prime and let dry for at least **2 hours** (refer to specific index card).

Step number 2:

Apply **FIX-BANDA** on all angles and corners in order to achieve total imperviousness of these critical points. **FIX-BANDA** is an ultra-elastic butyl that is very easy to apply: just withdraw the protective wrapping.

Step number 3:

Apply **HIDROFACIL** according to the following suggestions:

- **HIDROFACIL** should not be mixed with anything. This a single component product that is ready to be used.
- Shake the product slowly with a mixer or suitable device to achieve a well mixed product.

- Apply an even coat with a **long-hair roller**.
- Its blue colour enables you to easily see the areas where the product has to be applied.
- Let the product **DRY** completely. After one hour has elapsed (approximate waiting period at 20ºC and for moderately absorbent surfaces) the first coat should already be dry.
- Apply a **second coat** criss-crossing the coats.

Step number 4:

When the second coat is completely dry (**at least 3 hours**), glue the ceramic tiles with **flexible** cement glue such as **TECNOFLEX, FIXARAPID FLEX**, etc. Use a toothed trowel suitable to the size of the piece to be glued.

Step number 5:

Once at least 24 hours have elapsed since the ceramic tiles have been placed, rejoin with **FIXCOLOR, EUROCOLOR FLEX** or **CERPOXI** or **PROFESSIONAL PX**.

◆ **Suggestions to waterproof ceramic shower floors:**

The waterproofing of the ceramic shower floors guarantees perfect waterproofing. Both coats of **HIDROFACIL** will achie sufficient thickness and it is necessary to place **FIX-BANDA** on all corners and drains. In this case, ALWAYS rejoin the ceramic shower floor with **CERPOXI**.

EXPANSION JOINTS AND JUNCTION JOINTS IN BATHROOMS:

We recommend the use of ultra-elastic polyurethane putty **SELLALASTIC** or **SILICONA NEUTRA** to ensure a perfect bond and operation of the joints with movements.

CLEANING OF TOOLS:

The rollers, basins etc should be cleaned with water while the product is still sticky. When the product hardens any remains can only be cleaned by using mechanical means.

YIELD

The consumption of **HIDROPRIMER** is of approx.. 0,08 lt. to 0,15 lt./sq. mt according to the absorption of the surface.
The consumption of **HIDROFACIL** for 2 coats is of 1,0 – 1,3 Kg /sq. mt.

STORAGE

In its original container, well closed and stored in covered places and protected from heat (high temperatures) and from cold weather (freezing temperatures): maximum one year.

FORMATS

HIDROPRIMER is available in the following formats: one litre bottles and 5 and 10 litre tins.

HIDROFACIL is available is the following formats: 5 kilo containers.

FIX-BANDA is available is 10 ml rolls. Effective width of 8 cm.

CONSUMPTION:	
HIDROPRIMER	0.08-0.15 lt./m^2 (according to the absorption of the surface)
HIDROFACIL	1.0-1.3 Kg./m^2 (2 coats)

TECHNICAL DATA

	HIDROPRIMER	HIDROFACIL
PRODUCT		
• Aspect:	fluid liquid	creamy paste
• Colour:	bluish	blue colour
• Density:	1,02 g/cm^3	1,3 g/cm^3
• pH:	9,2	8.5-9.5
• Toxicity:	NO	NO
• Flammability:	NO	NO
APPLICATION		
• Temperature de application:	from +5ºC to 40ºC	from +5ºC to 35ºC
• Drying time:	approx. 2 hour s	approx. 3 hours
FINAL YIELDS		
• Resistance to humidity:	excellent	excellent
• Resistance to ageing:	excellent	excellent
• Resistance to thinners:	normal	normal
• Flexibility:	excellent	excellent
• Initial adherence:	------	>0.5 N/mm^2
• Impermeability:	------	no penetration (at 1.5bar / 7 days)
• Resistance to fissuring even at low temperatures:	------	>0.75 mm (at -20ºC)
STORING:		
• In covered, dry, ventilated places:	12 months	12 months
PACKING:		
Supplied in:	1 lt., 5 kg. and 10 kg.	5 kg. and 25 kg.

LATEFIX

Liquid latex-based additive to be used with FIXCOLOR.

WARNING

LATEFIX should not be used:

- For expansion joints (use **SELLALASTIC or SILICONA NEUTRA**).
- At temperatures below +5°C.

FIELDS OF APPLICATION

1) Significantly improves imperviousness, adherence and compression resistance of **FIXCOLOR 0/4** or **4/16**, when you replace water with **LATEFIX**.
2) It's specially indicated when grouting on POOLS making the whole surface more resistant to solvents like detergent, chloride, urin,...
3) Filling joints between tiles, mosaic, ceramics, glass mosaic, extruded stoneware, etc.
4) It's specially indicated when grouting over old joints.

TECHNICAL SPECIFICATIONS

LATEFIX is a water based special latex. When added to a mortar for grouting it grately increases its properties:

- water resistance,
- bond strength,
- abrassion and impact strength,
- and mechanical resistance.

HOW TO USE

- **Preparation of the joints:**
  After applying **LATEFIX**; clean all the joints. The aim is to have all the seals resistant, solid, free from dust, paint, wax, oil, grease, etc.
  When the installation has been done with fast drying glue cement you can proceed to grout after 4 hours; and if the installation has been done with normal drying glue cement, the grouting can be done after 24 hours.
  In very absorbent, dry joints or ones exposed to the sun in warm periods, previously damp them, bearing in mind that too much damp or a temperature range outside +5°C to +35°C **does not** guarantee **either** a good consistency **or** a regular installation.
- **Preparation of the mixture:**
  Mix approximately 6.0 litres of **LATEFIX** with every 25 kg of **FIXCOLOR 0/4**, or 5.5 litres of **LATEFIX** with every 25 kg of **FIXCOLOR 4/16** until it is evenly mixed; use an electric mixer at low revolutions.; leave to stand for about 2 minutes: remix and the mass will be ready to use.
- **Application of the mixture:**
  Fill in the joints completely, with the help of a rubber spatula (**FIX-ESPÁTULA**), exerting enough pressure to fill in all the existing cavities, and gradually removing all the

excesses with the same spatula. MAXIMUM FIFTEEN MINUTES AFTER ITS APPLICATION you can proceed with the surface finish of the joint and cleaning the tiles with the help of a slightly damp sponge.
There are rotating machines for large surface areas on the market specially for installing and cleaning more quickly. (Please consult)

◆ **Warning:**
To grout terracotta or floor tiles with absorbent surfaces, we recommend applying an initial **protective** layer of **FIX-OIL to close** the pores and thus make cleaning easier.
If there are small remains of grouting on rough tiles, you can do a final cleaning seven days after grouting, using cleaning acids such as **GRESNET**, suitably diluted with 1:10 water.

CONSUMPTION:

Size (mm.)	Thickness (mm.)	Joint (mm.)	Performance Fixcolor 4/16 (Kg/m^2)	Performance Latefix (Kg/m^2)
100x200	8	4	0.96	0.20
120x240	12	8	2.40	0.50
200x200	8	6	0.96	0.20
200x400	10	15	2.25	0.48
250x250	12	10	1.92	0.40
250x250	10	20	3.20	0.70
300x300	8	6	0.64	0.14
330x330	15	20	3.64	0.77

TECHNICAL DATA

DIRECTIVES EN-13.888

PRODUCT
- Appearance: Fluid liquid to be used with FIXCOLOR
- Density: 1.0 g/cm^3
- pH: 6 $\pm$ 1
- Inflammability: No
- Toxicity: irritant, avoid contact with skin and eyes

APPLICATION
- Start the grouting if you have used:
  - fast glue cement: after 6 hours.
  - normal glue cement: after 24 hours.
- Mixing liquid: approx. 6.0 litres per 25-kg Fixcolor 0/4 or approx. 5.5 litres per 25-kg Fixcolor 4/16
- Temperature of application: + 5 °C to + 35 °C
- Useful life: 1 hour
- Starting cleaning: after 30 minutes a +20 °C
- Can be walked on after: 24 hours
- Final hardening: 7 days

PERFORMANCE PROPERTIES
- Resistance to damp: excellent
- Resistance to ageing: excellent
- Resistance to solvents: excellent
- Resistance to acids/alkalis: poor
- Resistance to abrasion: < 1000 mm^3
- Resistance to flexion after dry storing: $\geq$ 2.5 N/mm^2
- Resistance to flexion after freezing-thawing cycles: $\geq$ 2.5 N/mm^2
- Resistance to compression after dry storing: $\geq$ 15 N/mm^2
- Resistance to compression after freezing-thawing cycles: $\geq$ 15 N/mm^2
- Retraction: < 3 mm/m
- Water absorption after 30 minutes: < 2 g
- Water absorption after 240 minutes: < 3 g

STORING
- In covered, ventilated places, stored in their original containers, well closed, for: 12 months

PRESENTATION AND COLOURS
- Supplied in: 1.25 lt, and 25 lts. sizes.

PRIMFIX

Latex for producing bonding pastes, mortars and priming.

WARNING

PRIMFIX should not be used:

- Diluting it more than the instructions indicate.
- At temperatures lower than +5°C.
- For applications other than those indicated.
- Mixed with cementitious adhesives for bonding.
- For laying tiles in special situations, such as facades, radiant floors etc. without first consulting the Dept.

FIELDS OF APPLICATION

1) Mixed with pure Portland, it is ideal for making **bonding pastes** between dry mortar and new mortar as an efficient, long-lasting bonging bridge.

2) Mixed with Portland and sand, an **adhesive mortar is obtained** ideal for laying glazed tiles, stoneware, CERAMIC TILES etc.

3) With **PRIMFIX** mortars can be made of considerable thickness, for laying ceramic slabs with bonding completely guaranteed.

4) Producing **mortar fillings**: from 1 mm to thick plinths.

5) Sealing porous substrates, such as **gypsum rendering** etc. prior to laying tiles with **FIXACER** or **FIXAGRES FLEX**.

TECHNICAL SPECIFICATIONS

PRIMFIX is a white latex, formulated with polymers in aqueous dispersion which, pure in some cases, is used as a primer or bonding bridge, and in others, mixed with hydraulic mortars, improves their flexibility, impermeability, adhesion and resistance to compression and traction.

Ideal for making mortar fillings.

INSTRUCTIONS FOR USE

- **Substrate:**
  All substrates where **PRIMFIX** is to be applied, or a mortar with it as an additive, will always be resistant, solid, free of dust, paint, waxes, oils and greases, and will be perfectly set.

- **Preparing the mixture:**
  Its use as a **primer** on gypsum **substrates**:
  1st) Apply a **single** layer of **PRIMFIX** **without diluting** by brush or roller.
  2nd) Allow to dry.
  3rd) Apply the cementitious adhesive with a notched trowel.

  Its use as a **bonding paste**:
  1st) Mix **PRIMFIX** and Portland cement in a proportion of 1:1.
  2nd) Apply this mix onto the mortar with a brush, roller, mop etc.
  3rd) Spread the new mortar with the paste still damp (fresh on fresh).

Its use as an additive for making **filling mortars of 1 mm to 3 mm.**:

1st) It is essential to apply a bonding paste (see previous step)

2nd) the cement-mixer, mix quantities equivalent to 50 Kg. of Portland + 150 Kg. of fine sand + the necessary **PRIMFIX**.

3rd) Pour the resulting mixture onto the flooring and level with a suitable rule and spirit-level.

Its use as an additive for making **filling mortars of 3 mm to 30 mm.**:

1st) It is essential to apply a bonding paste (see previous step)

2nd) In a receptacle, mix 25 litres of **PRIMFIX** with 50 litres of water.

3rd) In the cement-mixer, mix quantities equivalent to 50 Kg. of Portland +200 Kg. of sand + the NECESSARY liquid of the previous mixture.

Its use as an additive for making bonding mortars for laying **STONEWARE**:

1st) In a receptacle, mix 25 litres of **PRIMFIX** with 75 litres of water.

2nd) In the cement-mixer, mix quantities equivalent to 50 Kg. of Portland +200 Kg. of sand + the NECESSARY liquid of the previous mixture.

3rd) Apply the product ALWAYS USING THE DOUBLE APPLICATION TECHNIQUE: spreading mortar onto the substrate and onto the backs of the pieces => 100% contact.

Its use as an additive for making bonding mortars for laying **CERAMIC TILES**:

1st) In a receptacle, mix 25 litres of **PRIMFIX** with 25 litres of water.

2nd) In a receptacle, mix 25 litres of **PRIMFIX** with 25 litres of water.

3rd) Apply the product ALWAYS USING THE DOUBLE APPLICATION TECHNIQUE: spreading mortar onto the substrate and onto the backs of the pieces => 100% contact.

◆ **Precautions:**

- In the case of laying tiles, always press on the tiles to ensure proper bonding. Tap on the pieces with a rubber mallet.
- Protect all types of recent jobs from excess heat, frost, rain etc. for at least the first 24 hours.
- As an additive mortar with latex, check constantly that no surface layer has formed.

CONSUMPTION:

	PRIMFIX (l/m^2)	Water (l/m^2)	Portland (kg/m^2)	Sand (kg/m^2)
• Priming	0.05	---	---	---
• Bonding paste	0.20	---	0.20	---
• Fillings of 1 mm to 3 mm.	0.27	---	0.43	1.30
• Fillings of 3 mm to 30 mm.	0.09	0.18	0.36	1.45
• Laying stoneware onto mortar (with double application technique)	0.07	0.21	0.36	1.45
• Laying porcelain tiles onto mortar (with double application technique)	0.14	0.14	0.36	1.45

(approx. for each mm of mortar thickness).

TECHNICAL SPECIFICATIONS

DIRECTIVES	EN 13.813 (with RECRECEM PRE-MIX)
PRODUCT	
• Appearance:	White fluid liquid. Mixed with RECRECEM PRE-MIX produces a CT-C35-F8 mortar.
• Density:	1.02-1.04 g/cm^3
• Content in solids:	25%
• pH:	4
• Flammability:	No
• Toxicity:	Prolonged contact may irritate skin and/or eyes.
APPLICATION	
• Application temperature:	+ 5°C a + 35°C
FINAL PERFORMANCE	
• Resistance to humidity:	excellent
• Resistance to aging:	excellent
• Resistance to solvents:	excellent
• Flexibility:	improves this
• Resistance to flexion and compression:	>8 N/mm^2 ; >35 N/mm^2
STORAGE	
• In covered, ventilated places, keeping it well closed in its original packaging until:	12 months
PRESENTATION	
• Supplied in:	5 l and 25 l drums

◆ **Sealing joints when laying tiles:**
We recommend using a specific material, such as **FIXCOLOR** (fine or coarse grain) or **EUROCOLOR FLEX** or **CERPOXI** or **PROFESSIONAL PX**.
In dilation joints apply a specific material, such as **SELLALASTIC** or **SILICONA NEUTRA**.

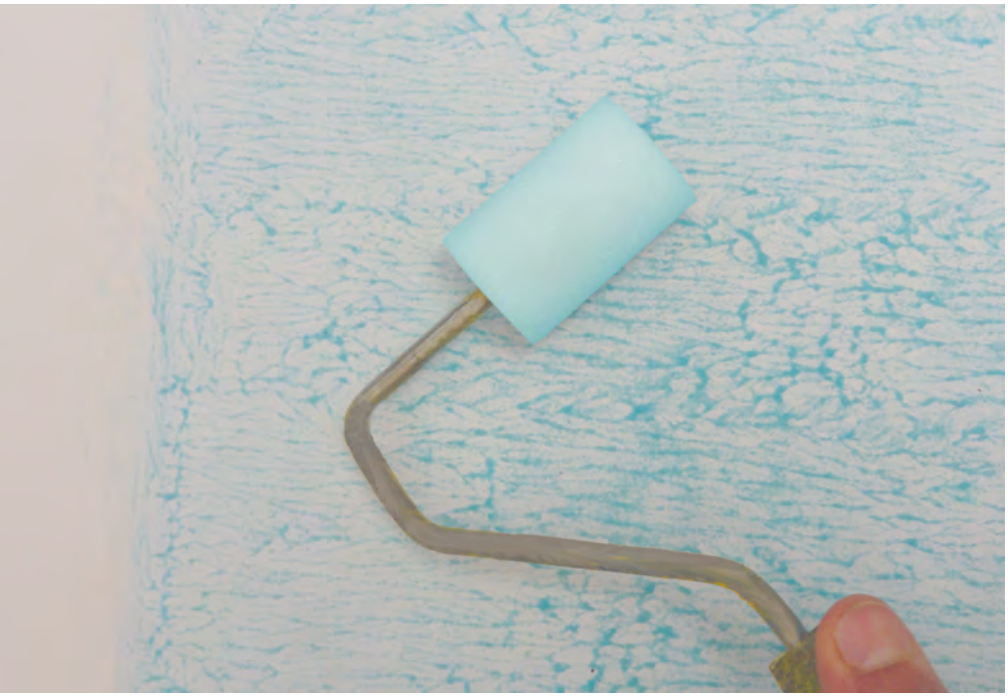
Adding **PRIMFIX** to the adhesive/sand mixture.

FIXCER

SPECIAL ADHESIVES

BOND COAT

An adhesive primer for interior and exterior for all type of surfaces. After application, it allows gluing tiles, applying self-leveling mortar, applying waterproofing barriers, etc.



WARNING

BOND COAT must not be used:

- With temperatures below +5° C.
- Diluted with water: it must be applied pure.
- For applications other than those that are indicated.
- Mixed with cement-based adhesives.

FIELDS OF APPLICATION

BOND COAT is an adhesive primer to be applied on enamelled ceramic, terrazzo, natural stone, polished concrete, etc. Once dry, **BOND COAT** forms a continuous and textured blue film, thereby facilitating the subsequent bond by cement-based adhesives, self-leveling mortars, etc. and as a bond-coat between concrete-mortar or concrete-concrete.

It is very useful in the following situations:

1) **Laying new tile on top of old tile:** applied to the old tile, it facilitates subsequent bonding by the cement-based adhesive. It is especially necessary when the old tiles are not perfectly clean.
2) **Floors with self-leveling mortars:** applied on top of highly polished or sealed concretes or on top of wood, it facilitates subsequent bonding by a self-leveling mortar, such as **FIX-NIVEL.** Likewise, applied on top of old tile on an unleveled floor, it will also facilitate subsequent bonding by a self-leveling mortar.

TECHNICAL CHARACTERISTICS

BOND COAT is a ready-to-use product. It is odourless and solvent-free, VOC free, and it is formulated based on acrylic dispersions and additives that enhance adhesion to non-absorbent and absorbent substrates. It can be applied to vertical and horizontal surfaces indoors and outdoors.

Ideal for subsequently applying **FIX-NIVEL.**

HOW TO USE

- **Support:**
  All supports where **BOND COAT** is going to be applied should always be strong; solid; clean of any sand, wax, oils or greases; and they must be perfectly set. Likewise, there must not be any ascending humidity from the sub-soil. **BOND COAT** is not a waterproofing barrier.

- **Product preparation:**
  Do not add anything to the container: the product is ready to use.

  Mix the content of the container thoroughly before using: blend for 1 minute with an electric mixer.

- **Product application:**
  BOND COAT is easily applied using a paint or sponge roller. Short nap rollers or flat brushes can also be used. In any event, do not apply excess product, and avoid the formation of "puddles" of product on surfaces.

BOND COAT should preferably be applied at a temperature of +5° C or above.

BOND COAT is fast setting: at 20° C, it is dry to the touch in 3 hour.

- **Gluing new tiles:**
  New tiles can be laid between 3 and 5 hours after applying **BOND COAT.** Special cement-based adhesives should be used for laying on old tile, such as **FIX PORCELANICO FLEX, FIXSET FLEX FIXAGRES FLEX** , etc.

- **Application of waterproofing barriers:**
  A waterproofing barrier, such as **HIDROELASTIC**, can be applied between 3 to 5 hours after applying **BOND COAT.** Follow the application recommendations in its data sheet.

- **Applying self-leveling mortars:**
  Self-leveling mortars such as **FIX-NIVEL** can be applied between 3 to 5 hours after applying **BOND COAT.** Follow the application recommendations in its data sheet.

- **Precautions:**
  - When laying tiles, always press on the tiles to ensure proper bonding. Tap on the pieces with a rubber mallet.
  - Protect any type of recent work from excessive heat or freezing for at least the first 24 hours.

- **Grouting after laying tile:**
  We recommend using a special material such as **FIXCOLOR** (fine or thick grain), **EUROCOLOR FLEX** or **CERPOXI** or **PROFESSIONAL PX**.
  For expansion joints, apply a specific, elastic material such as **SELLALASTIC** or **SILICONA NEUTRA.**

CONSUMPTION:	
BOND COAT	0.10 - 0.15 kg/m^2 (applied with a paint roller)

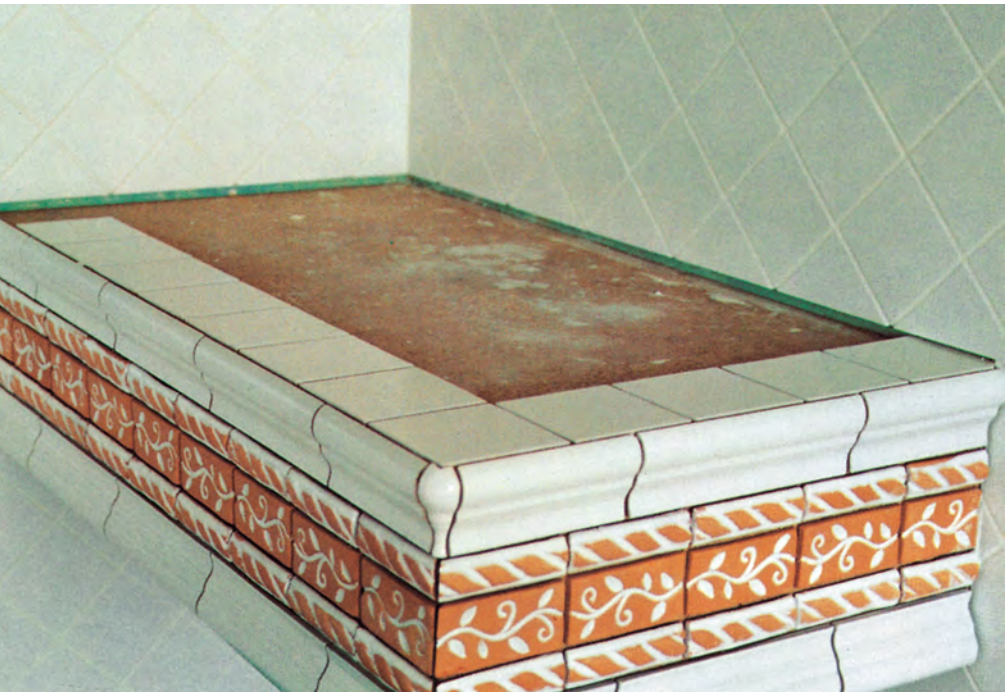
TECHNICAL DATA:

PRODUCT:	
• Appearance:	Blue-coloured, viscous liquid.
• Density:	1.4 g/cm3
• pH:	8,0-9,0
• Flammability:	no
• Toxicity:	prolonged contact may irritate the skin and/or eyes.
APPLICATION:	
• Application temperature:	+5° C to +35° C (ideal: +10° C)
• Proportion of the mixture:	it must be applied pure, without diluting.
FINAL QUALITIES:	
• Resistance to humidity:	excellent
• Resistance to ageing:	excellent
• Resistance to solvents:	excellent
• Flexibility:	excellent
• Gluing new tiles or application of waterproofing barriers or applying self-leveling mortars:	after 3 to 5 hours have elapsed (max.: 14h.)
STORAGE:	
• In covered and ventilated places, kept in its original and well-closed container, up to:	12 months
PRESENTATION:	
Supplied in:	5/kg tubs.

BOND COAT: ready-to-use product: open, mix and apply

ELASTICER, ELASTICER FLUID & ELASTICER THICK LAYER

Three-component reactive resin adhesives for sticking any kind of ceramics, making them waterproof and elastic.



WARNING

ELASTICER, ELASTICER FLUID & ELASTICER THICK LAYER should not be used:

- On damp surfaces.
- On plaster walls, plasterboard or any element whose main component is plaster (Use **FIXAGRES FLEX ESPECIAL YESO**).
- Outside the permitted temperature range.

FIELDS OF APPLICATION

ELASTICER, ELASTICER FLUID & ELASTICER THICK LAYER are an adhesives that enables you to stick all kinds of ceramics onto very diverse supports. For example:

- Tiles that are not at all absorbent, such as glass or porcelain stoneware, on supports that are not at all absorbent, such as metal, **glass**, PVC, etc.
- Ceramic floor tiles and large sized natural stone: marble, granite, slate, etc. on mortar, **RECRECEM PRE-MIX, FIX-REVOCO, FIX-NIVEL**, etc.
- Installing pieces of **marble** in thresholds, lintels, kitchen sinks, etc.
- Installing pieces of glass or resins.
- Superimposing on any kind of ceramics, whether or **not absorbent**.
- Installing ceramics in any kind of **wood**, whether or not absorbent, kitchen tops, laboratories, etc.
- **Outdoor** installations: façades, balconies, cornices, etc.
- Waterproofing and installing vitreous mosaic in **showers** and **swimming pools**.
- Installing porcelain stoneware and glass mosaic on PVC, having first applied **PRIMER PARA ELASTICER.**
- Installing on horizontal and vertical surfaces. Indoors and exteriors.
- Installing on supports subject to heavy **vibrations and/or flexions**.

TECHNICAL SPECIFICATIONS

ELASTICER is a three-component waterproof adhesive made with special resins, selected loads and additives that harden through a chemical reaction, offering an exceptional product due to its:

- Total watertightness (100%)
- Excellent adhesion to most supports: ceramics, concrete, iron, paint (in good condition), PVC, mortar, wood, metals, etc.
- High mechanical resistances in a very short time.
- Extraordinary elasticity.
- Great resistance to ageing.

HOW TO USE

- **Support:**
  Before applying **ELASTICER**, clean the support perfectly. It must be clean, resistant, solid, free of dust, wax, oil, grease, rust, old paint, etc. The mortar supports where **ELASTICER** is to be applied must be perfectly set. The presence of humidity will affect the adhesion of the adhesive.

  Only in the case of having to apply on PVC, will you previously apply the **PRIMER PARA ELASTICER** (please consult).
- **Preparation of the components:**
  The ideal application temperature is +20°C. When the temperature is very low and the liquids are cold or viscous, submerge the bottles in hot water (not boiling) until they turn fluid.
- **Preparation of the mixture:**
  The components are **perfectly pre-dosed. The proportions should not be altered**.

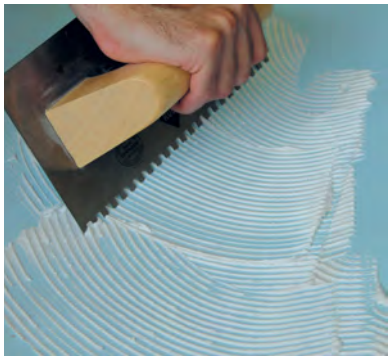
  A set is made up of: 1 **large** bottle and another **small** bottle of liquid and 1 bag of powder. Empty the entire contents of the two bottles into the bucket. Then add all the powder from the bag. Mix the mass with a spiral beater at high revolutions for 2-3 minutes.
- **Application of the mixture:**
  - Preferably use a toothed trowel with 3 mm teeth.
  - When you need a waterproof layer (wood, showers, swimming pools, etc) proceed in the following way: spread **ELASTICER** with a smooth trowel to get a minimum, even thickness of 1/2 mm. After 24 hours, you can stick on the ceramics,

applying **ELASTICER** with the toothed trowel.

- For difficult applications, exteriors or for sticking pieces that are larger than 30 x 30, use the double gluing technique.
- For floors that are subject to vibrations, we recommend leaving wide joins of at least 5 mm.
- The pieces to be installed must be dry.
- Always press on the floor tiles to ensure correct adhesion. Tap all the pieces with a rubber mallet. Protect recently laid floors from excessive heat, frost, rain, etc, for at least 24 hours after installation.
- Very important: the setting time for **ELASTICER** depends on the temperature of the area in which it is applied: Do NOT use **ELASTICER** in temperatures of less than +8°C.

◆ **Cleaning tools:**
Clean tools with alcohol or universal solvent before **ELASTICER** hardens.

◆ **Sealing seals:**
We recommend using a specific material such as **FIXCOLOR** (fine or thick grain), or **EUROCOLOR FLEX** or **CERPOXI** or **PROFESSIONAL PX**. Apply **SELLALASTIC** or **SILICONA NEUTRA** to expansion joints.



CONSUMPTION:

ELASTICER or **FLUID** used for sticking ceramics:	1,9 Kg./m^2 per mm. of thickness
or used to create a waterproof sheet:	1,0 Kg./m^2
ELASTICER THICK LAYER used for sticking ceramic:	19 Kg./m^2 per **cm**. of thickness

TECHNICAL DATA

DIRECTIVES	EN 12.004
PRODUCT	
• Type:	R2 T :reactive resin adhesive with additional characteristics and reduced slip. (**ELASTICER FLUID**: R2)
• Density:	liquid A: 1.02 g/cm^3 liquid B: 1.04 g/cm^3 powder: 1.3 g/cm^3 (E.C.G.=1,2 g/cm^3)
• Viscosity:	liquid A: 2500-3800 mPa·S (25 °C) liquid B: 300-600 mPa·S (25 °C)
• Toxicity:	Irritant, avoid contact with skin and eyes. Always wear gloves during use; protective goggles are also recommended. If the product comes into contact with the skin, wash with plenty of soap and water. If the product comes into contact with the eyes, wash with plenty of running water and consult a doctor.
• Inflammable:	NO
APPLICATION	
• Consistency of the mixture:	paste
• Colour of the mixture:	white
• Density of the mixture:	1.5 g./cm^3 (E.C.G.=1,57 g/cm^3)
• Temperature of application:	+10 °C to +30 °C
• Pot life:	30 min.
• Waiting time:	60 min.
• Useful life:	1 hour
• Slip:	< 0.5 mm. (ELASTICER FLUID: not applicable)
• Can be walked on after:	12 hours (20°C); 48 hours (10°C); (0°C)
• Final hardening:	7 days (20°C)
PERFORMANCE PROPERTIES	
• Resistance to damp:	excellent
• Resistance to ageing:	excellent
• Resistance to solvents:	good
• Flexibility:	excellent
• Shear initial adhesion:	$\geq$ 2 N/mm^2
• Shear adhesion after immersion in water:	$\geq$ 2 N/mm^2
• Pot life: adhesion (20 min):	$\geq$ 0.5 N/mm^2
• Shear adhesion after thermal shock:	$\geq$ 2 N/mm^2
STORING	
• In covered, dry, ventilated places, kept in its original container, carefully closed for:	24 months
PRESENTATION	
• Supplied in: **ELASTICER**	2-kg, 5-kg and 20-kg cans in White color.
ELASTICER THICK LAYER	5-kg and 20-kg cans in White color.
ELASTICER FLUID	5-kg and 20-kg cans in White color.

MASTIC MS

EXCELLENT elastic, multi-use ADHESIVE for LAYING and sealing between absorbent and non-absorbent materials.

WARNING

MASTIC MS must not be used:

- On dirty substrates or substrates impregnated with grease or repellents.
- On top of polyethylene, polypropylene, Teflon or bitumen.
- On absorbent substrates without first applying **IMPRIMACION SELLADOR S10.**

FIELDS OF APPLICATION

1) **Fixing** the **galvanised steel structure** in plaster and plasterboard walls.
2) **Fixing sinks** made of metal, steel or ceramic on top of marble or wooden surfaces.
3) **Fixing mirrors** in bathrooms.
4) **Fixing electrical appliances** in kitchens.
5) **Fixing** in **bathrooms:** bidets, toilets and furniture
6) **Fixing isolating materials** such as rock wool or polystyrene directly on brick.
7) **Fixing** skirting boards and **lintels**.
8) **Fixing** of panels on **ventilated façades**
9) **Sealing security glass.**
10) **Sealing** bodywork **joints**.
11) **Sealing** and filling **cracks** (even in movement).
12) **Seals** in naval **construction**.
13) **Sealing** in glass, porcelain, **aluminium**, polyester, hardwoods, etc.
14) Due to its extremely low tensile modulus, it is **highly elastic** and perfect for use both indoors and outdoors.

TECHNICAL CHARACTERISTICS

MASTIC MS is a new-generation elastomer with a polymeric base of modified silicone which dries in the atmosphere. Its characteristics are what makes it stand out:

. Excellent adherence to any surface.
. Excellent permanent elasticity.
. Large range of service temperature.
. Forms a skin after just 10 minutes!
. Fast drying.
. Does not drip.
. Very wide range of different uses.
. Easy application.

MASTIC MS: ideal for fixing metallic profiles on both absorbent and non-absorbent supports.

HOW TO USE

- **Substrate:**

  All contact substrates must be resistant, solid, free from powder, paint, wax, oil and grease and perfectly hardened (on concrete: 4 weeks) although they still can be very slightly wet on the surface.

- **Application of the primer:**

MASTIC MS can be applied directly onto NON-absorbent surfaces without a primer (aluminium, glass, etc.), and onto ABSORBENT surfaces which have been previously treated with **IMPRIMACIÓN SELLADOR S10** (concrete or mortar). Apply with a brush until the substrate is completely saturated. It is ESSENTIAL to perform this operation EFFICIENTLY. Allow to dry from 1 to 4 hours.

- **Application of the filler:**
  - Cut the tip using scissors and introduce the cartridge into the application gun designed for this kind of product.
  - Apply the product, trying to ensure it **enters deeply** and also that **it comes into complete contact** with the piece to be fixed or sealed.

◆ **Use in ventilated façades for fixing panels:**

Three basic points are recommended:

1) Apply 3 mm-thick double-sided adhesive tape. This tape will help the **MASTIC MS** adhere properly during the first 24 hours of drying time.
2) Apply the **MASTIC MS** in vertical stripes at a distance of 30 centimetres between stripes.
3) Ensure that the **MASTIC MS** is sufficient and press firmly.

Other useful tips:

a) If the joint is very wide, apply the filler in three successive applications: the first two near the sides of the joint (press firmly) and the third, in the centre.
b) It can be smoothed using a suitable tool and a little soapy water or alcohol.
c) It is advisable to use bodywork tape to ensure the perfect finish of the joint.

Fixing sinks made of metal, steel or ceramic on top of marble or wooden surfaces.

Fixing mirrors in bathrooms and appliances in kitchens.

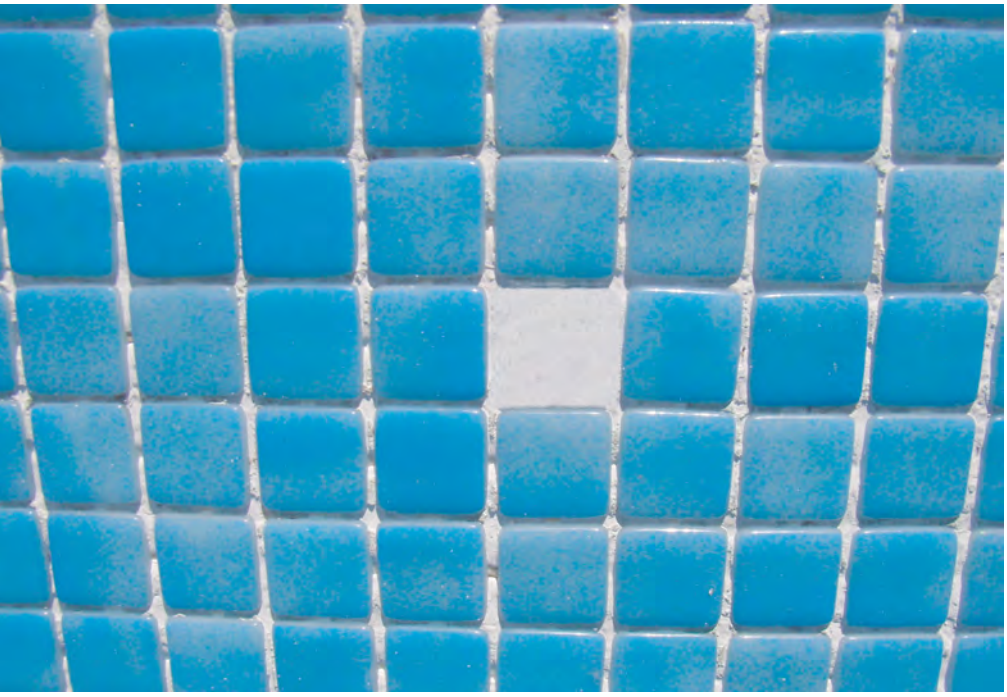
CONSUMPTION:				
PRIMER SEALANT S10:	0.2 l/m² » 0.004 l/m²			
	Joint width			
	8 mm.	10 mm.	15 mm.	20 mm.
For a depth of 10 mm:				

TECHNICAL SPECIFICATIONS:		
NAME:	**MASTIC MS EN 15651-1**	**SELLALASTIC FOAM**
PRODUCT:		
• Type:	F-EXT-INT-CC:modified silicone MS elastomer filler.	Closed cell polyethylene foam cord.
• Density:	1.02 g/cm^3	23 kg/m^3 DIN 53420
• Toxicity:	Neutral odourless product free from isocyanates.	Harmless
• V.O.C.:	0%	N/A
APLICATION:		
•Application temperature:	+ 5°C to + 40°C	+ 1°C to + 40°C
•"Skin-forming" time:	12-20 min (+23°C-55%hr)	------
• Polymerisation speed:	thickness of 2.0 mm every 24 h (+23°C-55%h.r.)	------
FINAL PERFORMANCE:		
• Shore A hardness:	35 ± 5	------
• Elasticity module:	0.6 N/mm^2 (DIN53504)	------
• Lengthening up to breakage:	> 350% (DIN 53504)	65%
• Movement capacity:	25%	------
• Paintable:	Yes	------
• Permitted temperature range	-30°C to +80°C.	-40°C to +60°C.
• Chemical resistance:	to water, clearing agents, ocassional contact with oil, acids or diluted alkalis.	Do not apply with hot asphalt fillers at over +70°C.
•Resistance to UV radiation:	could show slight yellowing under certain very adverse weather conditions.	unlimited
• Resistance to traction:	2.0 N/mm^2	2.2 kg/cm^2
STORAGE:		
• In a dry, ventilated place at temperatures of between 5°C and +25°C:	12 months from date of manufacture and resistant to -15 °C during transport	unlimited
PRESENTATION:		
• Supplied in:	Cartridges of 290 ml in GLASS transparent	In grey and sold by linear metres. Available in diameters of 15, 20, 25, 30 and 40 mm

TECHNICAL SPECIFICATIONS: IMPRIMACION SELLADOR S10	
PRODUCT:	
• Type:	Clear polyurethane liquid
• Density:	1.03 g/cm^3
• Toxicity:	Toxic for aquatic organisms. Do not breathe in.
STORAGE:	
• In a dry, ventilated place at temperatures of between 5°C and 25°C: 12 months	
PRESENTATION:	
• Supplied in:	500cm^3 and 1 lt. packs

PX UNDERWATER

Specific adhesive for bonding and grouting individual pieces of glass mosaic under water.



ATTENTION

PX UNDERWATER must not be used:

- In other applications without previously consulting the Technical Department.
- Overlapping under water.
- On other surfaces than concrete or mortar.

Bi-component product

FIELDS OF APPLICATION

- Product for bonding vitreous mosaic pieces or porcelain stoneware pieces inside swimming pools filled or not with water.
- Allows **gluing** of individual pieces, that is, they must be surrounded by other pieces that will act as an anchor for the new piece glued with **PX UNDERWATER**.
- 2 in 1 product: with the excess material that protrudes through the joints, we will perform the **grouting**.

TECHNICAL CHARACTERISTICS

PX UNDERWATER is a specific adhesive that polymerizes with or without the continuous presence of water.
Its characteristics distinguish it for its:

- Very high mechanical resistance in flexion and compression.
- High wear resistance.
- High adherence in the most difficult situations.
- High resistance to UV rays.
- Very good chemical resistance.

HOW TO USE

- **Preparation of the support:**
  The correct, exhaustive and detailed cleaning of the **gap** between pieces is the only guarantee to ensure a very durable grip. Underwater application is by definition very complicated as the applicator will need to dive repeatedly to properly clean the gap between parts.
  The premise of this previous preparation will be to ensure that there are NO remains of the old adhesive that held the fallen piece, that is, we must clean up until we reach the waterproofing that was below the adhesive cement. (see drawing n°2 of the steps to follow)

- **Preparation of the adhesive:**
  PX UNDERWATER is a bi-component product: it is **mandatory** to mix intensively with a mixer attached to an electric drill for 2-3 minutes.

◆ **Application of the adhesive:**

a.- first of all, the applicator must put on disposable nitrile gloves.

b.- then you must apply a good amount of **PX UNDERWATER** on the back of the piece to be placed. The objective is that the surplus product protrudes through the joints and acts as a grout.

c.- then they must be submerged in the pool with the mosaic piece and the **PX UNDERWATER** adhesive on the back of the piece.

d.- place the piece in the corresponding hole and press with great force so that the adhesive expels all the water from the hole and with this we will get the adhesive to come into contact with the pool's mortar base.

e.- with the excess adhesive that protrudes through the joints, we will fill the joints between pieces.

In summary: follow the following illustrations:

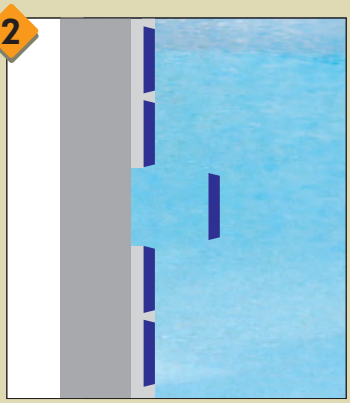
CONSUMPTION	
PX UNDERWATER	10-20 grams/piece 25x25mm

TECHNICAL DATA	PX UNDERWATER
PRODUCT:	
• Type:	reaction adhesive
• Aspect part "A":	dense paste
• Aspect part "B":	viscous liquid
• Toxicity:	contact with skin and eyes should be avoided. Always wear gloves during donning, and protective glasses are recommended. In case of skin contact, wash with plenty of soap and water. In case of contact with the eyes, wash with plenty of running water and consult a doctor.
APPLICATION:	
• Application temperature:	+20°C to +35°C
• Useful life:	1 hour (at +20°C)
• Drying under water at:	72-96 hours (at +20°C)
• Total hardening under water at:	7 days (at +20°C)
STORAGE:	
• In covered, dry and ventilated places:	3 years
PRESENTATION:	
Supplied in:	in 0.2 kgs. cans

1

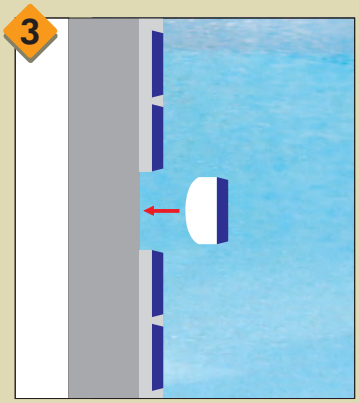
• **Two-component mortar. Mix mechanically with an electric stirrer.**

2



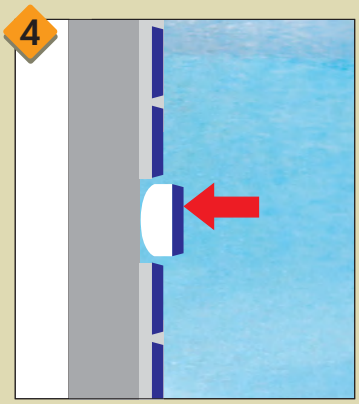
• **Completely empty the hole where the new piece will go.**

3



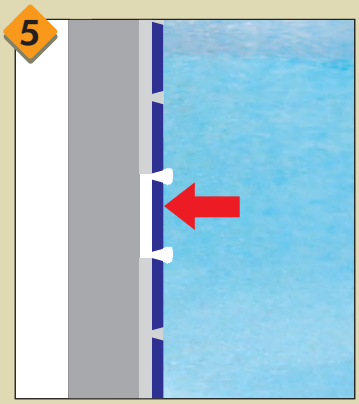
• **Apply a large amount of PX UNDERWATER to the back of the piece to be glued.**

4



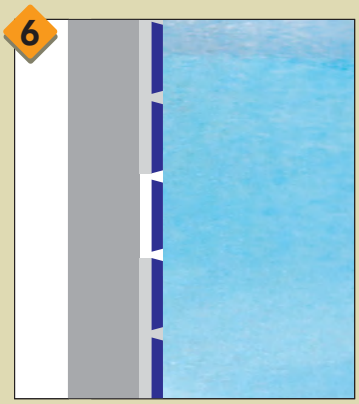
• **Put the piece in place and press with a lot of force ....**

5



• **.... until the product protrudes through the joints between pieces.**

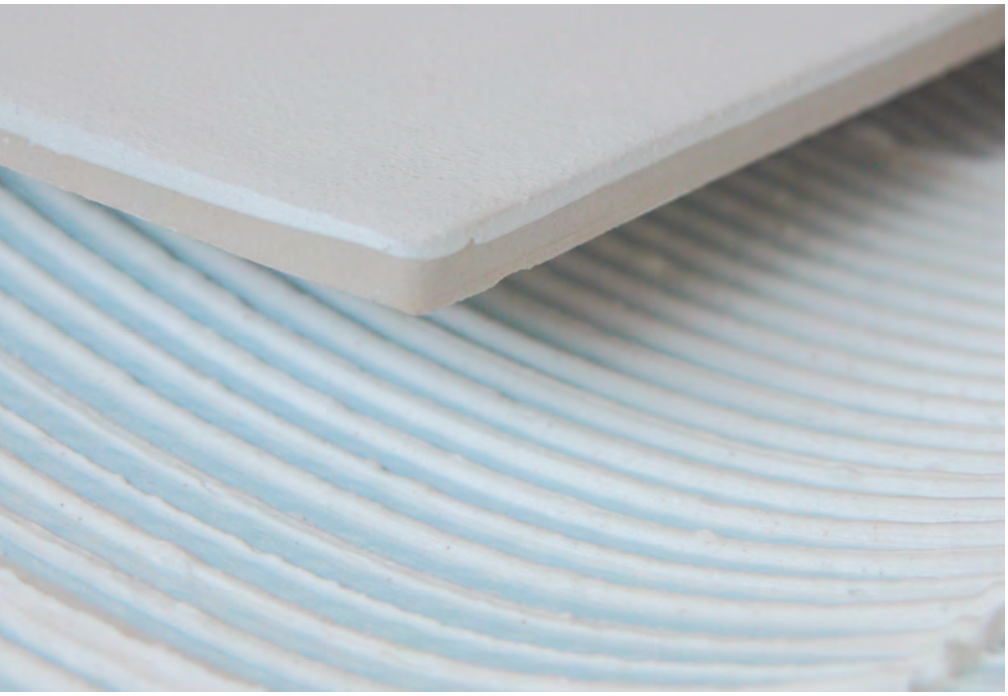
6



• **Immediately clean the remains of PX UNDERWATER.**

FIXADUR

Polyurethane adhesive with EXTRAORDINARY adhesion for laying ceramic tiles and glass mosaic on the most difficult surfaces



FIELDS OF APPLICATION

FIXADUR is a MAXIMUM adhesive:
- maximum adhesion, maximum security
- maximum durability, maximum guarantee

FIXADUR is the adhesive to use on the most difficult surfaces:

- Non-absorbent substrates such as linoleum, PVC, polyester, EPDM rubber, steel, old ceramics and cold and hot polyurea.
- It is also ideal for sticking material to difficult surfaces such as gypsum, fiber cement, cured wood, chipboard, glass...

It is the ideal adhesive for laying tiles made of:

- Marble, granite, slate, stoneware, porcelain stoneware, vitreous glass, green marble, etc.

Typical applications:

- Interior and exterior horizontal and vertical installations in industries, laboratories, kitchens, swimming pools, façades, balconies, terraces, cornices...
- Showers, bathrooms, prefabricated bathrooms, changing rooms, sports centres.
- Countertops, counters, lintels, domes...

TECHNICAL SPECIFICATIONS

FIXADUR is a state-of-the-art tri-component waterproof adhesive formulated to provide maximum performance in any installation. It is an exceptional produce due to:

- Being totally waterproof (100%)
- Having excellent adhesion to most substrates: ceramic, concrete, iron, paint (in good condition), P.V.C., mortar, wood, metals, polyureas, etc.
- Offering maximum mechanical strength in a very short time.
- Offering extraordinary flexibility.
- Being highly resistant to ageing.

HOW TO USE

- **Support:**

  The substrate must have a minimum strength of 1 N/mm2 since the adhesion of **FIXADUR** will greatly exceed this threshold. Check that the temperature is at least +3°C above the dew point. (Ask the Technical Dept. for more information).

  In general, check that the substrate is clean, resistant, solid and free of dust, waxes, oils, grease, oxides, old paint, etc. In general, the temperature of the substrate should be within the following range: -10°C - +30°C.

- **Mortar or concrete substrates:**

  The mortar substrates where **FIXADUR** is to be applied must be perfectly set. The presence of moisture will affect adhesive adhesion.

- **Glued PVC substrates:**

  In these cases, apply the '**PRIMER PARA ELASTICER**' on the glued P.V.C., then rub it in and leave to dry for 2 minutes.

- **Metal substrates:**

  In these cases, remove any grease or oil residue with '**FIXAQUA DISOLVENTE**'. Apply the product, then rub it in and leave to dry for 2 minutes.

- **Gypsum substrates:**

  In these cases, prime the substrate with '**HIDROPRIMER**' and leave it to dry for at least 3 hours (at +20°C) before you start glueing the tiles.

- **Preparing the components:**

  The temperature range MUST be between +10°C and +30°C. Do not use this product in temperatures outside of this range.

- **Preparing the mix:**

  The components are perfectly pre-dosed. The proportions should not be altered.

  A set consists of: 1 large and 1 small bottle of liquid and 1 bag of powder.

WARNING

FIXADUR should not be used:

- On wet surfaces.
- For gluing wet parts or pieces.
- Outside the permitted temperature range.
- When making mixed media.
- For uses other than those indicated herein without prior consultation.

Pre-mix the resin component with the bag of powder. When the mix is homogeneous, add the hardening agent and stir with a spiral mixer at low rpm (at most 400 rpm) for 2-3 minutes.

To extend the shelf life of the stirred mix, divide the contents into smaller • Apply **FIXADUR** with a toothed trowel according to the size of the piece to be fitted and the planimetry of the substrate.

- Comb the adhesive parallel to the short side of the piece to facilitate air release. Put the piece in the right position and use a back and forth motion to fix it in place.
- **FIXADUR** works fast: only spread adhesive on the area right before it is put into place.
- With **FIXADUR**, you can also make a waterproof layer beforehand using the flat metal trowel. In this case, allow the layer to dry for 24 hours prior to fitting
- In difficult applications, outdoor settings or when gluing pieces larger than 40x40 cm, use the double gluing technique.
- In pavements subject to vibrations, we recommend leaving wide joints of at least 5 mm.
- Protect the newly installed pavement from excessive heat, frost, rain, etc., for at least 24 hours after installation.

◆ **Cleaning the utensils:**

Clean the tools with alcohol or universal solvent before the **FIXADUR** hardens.

◆ **Sealing of joints:**

We recommend using a specific material such as **FIXCOLOR** (fine or coarse grain), **EUROCOLOR FLEX**, **IDEAL COLOR**, **CERPOXI** or **PROFESSIONAL PX**. In expansion joints: **SELLALASTIC** or **NEUTRAL SILICONE**.

CONSUMOS:	
FIXADUR used for sticking ceramics:	1,5 Kg./m^2 per mm. of thickness
FIXADUR used to create a waterproof sheet:	1,0 Kg./m^2

TECHNICAL DATA	
DIRECTIVES	EN 12.004
PRODUCT	
• Type:	R2 T :reactive resin adhesive with additional characteristics and reduced slip.
• Density:	resin: 0.98 g/cm^3 hardener: 1.21 g/cm^3 powder: 1.01 g/cm^3
• Toxicity:	Only the hardener component is irritating: avoid contact with skin and eyes. Always wear gloves during use; protective goggles are also recommended. If the product comes into contact with the skin, wash with plenty of soap and water. If the product comes into contact with the eyes, wash with plenty of running water and consult a doctor.
• Inflammable:	NO
APPLICATION	
• Consistency of the mixture:	paste
• Colour of the mixture:	white
• Density of the mixture:	1.4 g./cm^3
• Temperature of application:	+10 °C to +30 °C
• Pot life:	25-30 min. maximum at +20°C
• Useful life:	30 min.
• Slip:	< 0.5 mm.
• Can be walked on after:	12 hours (+20°C); 48 hours (+10°C)
• Grouting at:	6 hours (+20°C)
• Final hardening:	7 days (+20°C)
PERFORMANCE PROPERTIES	
• Resistance to damp:	excellent
• Resistance to ageing:	excellent
• Resistance to solvents:	good
• Flexibility:	excellent
• Resistance to temperature:	-20 °C to +80 °C
• Shear initial adhesion:	$\geq$ 2 N/mm^2
• Shear adhesion after immersion in water:	$\geq$ 2 N/mm^2
• Shear adhesion after thermal shock:	$\geq$ 2 N/mm^2
STORING	
• In covered, dry, ventilated places, kept in its original container, carefully closed for:	12 months
PRESENTATION	
• Supplied in:	5.25-kg cans in White color.

FIXCER

WATERPROOFING PRODUCTS FOR TERRACES

FIXAQUA FILM

Liquid polyurethane membrane for waterproofing flat roofs, tanks, floors, etc. in situ and without overlaps

WARNING

FIXAQUA FILM should not be used:

- Where there will be heavy traffic of vehicles, forklift trucks, cars, etc. Do not use in car parks
- In saunas or steam baths (use **HIDROFIX**).
- On dirty or crumbling mortar surfaces or on non absorbant surfaces without first priming with **FIXAQUA PRIMER.**
- In tanks designed to hold strong acids or alkalis.
- Without respecting the necessary safety and self-protection measurest: gloves and a protective mask, and always use in a well-ventilated atmosphere.
- In swimming pools without a ceramic tiles finish.

FIELDS OF APPLICATION

- **Continuous waterproofing, without joins or overlaps,** installed in situ in a very easy, fast and safe way.
- **100% hermetic waterproofing** of mortar flat roofs, concrete, wood, metal, tiles, etc. tanks, bathrooms, changing rooms, swimming pool surrounds, cornices, gutters, floor covering and wall coverings.
- **Elastic waterproofing** that replaces asphalt fabric in terraces and balconies.
- **Ideal waterproofing** for resisting extreme weather conditions: absorbs the contraction-dilation movements of the support and its possible small fissures.
- **Waterproofing** with **good chemical resistance** to seawater, diluted acids and alkalis, acid rain, etc.
- **Passable waterproofing** for people on foot.
- **Re-waterproofing** of old sheets of asphalt, acrylic paint, roofs with tiles, zinc, aluminium, fibre cement, etc.
- It can also be used as a paint to protect concrete **against carbonation**.

TECHNICAL CHARACTERISTICS

FIXAQUA FILM is a water-based polyurethane elastomer with exception properties:

- It is 100) waterproof and watertight.
- Breathable to water steam.
- Resists ultraviolet rays.
- Acts as a bridge between fissures on the support.
- Chemical resistance and to microorganisms.
- Excellent adherence to the support.
- Resistant to abrasion and impact.
- Thermal resistance between -40ºC : +90ºC
- Highly repellent to dust.
- Low VOC lebel < 100 gr./lt.

Mix with an electric mixer for 2 minutes.

HOW TO USE

- **Preparation of the support:**
  There are five conditions to respect:

  1º) The support must be **clean**: remove all remains of dust, mildew, paint, wax, products for removing formwork, etc

  2º) The support must be **solid**: if the support is dusty mortar, first prime the surface with **FIXAQUA PRIMER**.

  3º) Wet mortar supports (not waterlogged) should first be primed with **FIXAQUA PRIMER**. Do not apply **FIXAQUA FILM** if there is stagnant water

  4º) Any **expansion joints** or **fissures** on the surface should first be sealed with the ultra-elastic, self-adhesive strip **FIX-BANDA**. By simply peeling off the protective paper, **FIX-BANDA** adheres safely to either side of the expansion joint or fissure in question.

  5º) On **wood, metal, tiles, asphalt sheet, glass, etc.** do the following instructions:

Mortar supports with humidity < 8%: apply **FIXAQUA FILM** directly without prior primer coating.

Mortar supports with humidity > 8%: apply first a coating of **FIXAQUA PRIMER**. Leave to dry for 6 to 8 hours and then apply **FIXAQUA FILM**.

New waterproofing of old asphalt sheets and acrylic paints or waterproofing of wood, metal, ceramic, etc.: apply **FIXAQUA PRIMER**. Leave to dry for a maximum of 6 to 8 hours and apply a first coating of **FIXAQUA FILM**. Then apply immediately **VELO-TERRATS -50** and then apply more **FIXAQUA FILM** until the **VELO-TERRATS-50** is completely soaked. Leave to dry for 18 to 36 hours and apply at least a second coating of **FIXAQUA FILM**.

- **Applying the product:**
  FIXAQUA FILM is a ready-to-use monocomponent paint. Do not add anything else. Open the can and stir the paint for 2 minutes to enable it to become homogeneous. Being a water-based product, we have an indefinite period of time to apply it and we may keep the remainder of the product in the can for later use. Apply in general using a short-nap roller on walls or flat metal wool on floors. It may also be applied using airless. Leave to dry for at least 18 to 36 hours and apply always at least one second coating. It is not necessary to de-aerate the paint.

- **Fitting ceramic tiles on floors, linings and swimming pools:**
  We may apply the material directly onto the **FIXAQUA FILM** once it is dry by using the **TECNOCOL FLEX** C2 S1-type mortar glue.

- **Cleaning the tools:** Use water to clean the tools before the polyurethane hardens.

CONSUMPTION:	
FIXAQUA PRIMER	300 gr./m^2 applied with long haired roller
FIXAQUA FILM	1.5 Kg/m^2 to achieve an average thickness of 1.5 mm.

TECHNICAL DATA	FIXAQUA FILM
DIRECTIVES	EN 1504-2 (C)
PRODUCT	
• Type:	Impermeable membrane made with polyurethane.
• Toxicity; inflammability:	No.
APPLICATION	
• Application temperature:	+ 5°C to + 35°C (do not apply FIXAQUA FILM when rain is imminent)
• Waiting time between coats:	18-36 hours (+20°C)
• Waiting time for tiling:	72 hours (+20°C)
PERFORMANCE PROPERTIES	
• Resistance to detergents an oils:	excellent
• Resistance to weak acids/alkalis:	excellent
• Resistance to stabbing:	excellent
• Tension force:	5 N/mm2(+20°C) ; 4,2 N/mm2(-25°C)
• Elongation:	2000% (+20°C) ; 1900% (-25°C)
• Elastic modulus E:	1,5 N/mm2(+20°C) ; 1,3 N/mm2(-25°C)
• Permeability to steam:	$\geq$ 15 gr/m2 x day
• Waterproofing:	without penetration of water (column 1ml /24h.)
• Adhesion to concrete:	> 1,5 N/mm2
• Shore A hardness:	60
• Service temperature:	de -40°C a +90°C
STORAGE	
• In covered, ventilated areas:	24 months
PRESENTATION	
• Supplied in:	sets of: 20Kg and 3.75Kg. in Grey color.

Apply with shorthaired roller on vertical surfaces or...

...with a flat trowel on horizontal surfaces.

FIXAQUA PRIMER

Epoxy primer applicable on WET, dirty or crumbling mortar supports to promote adherence

WARNING

FIXAQUA PRIMER should not be used

- At temperatures outside the +10°C to +30°C range. The correct chemical reaction would not occur.
- On surfaces **full** of sand, chips, oils, etc.
- To seal fissures or cracks in concrete bases (use **EPOXICOL**).
- For priming liquis asphalt.
- For joining new concrete with old concrete (use **PRIMFIX**).
- For priming plaster (use **HIDROPRIMER**).

FIELDS OF APPLICATION

- **A primer** with an aqueous base, with great capillary penetration in wet supports.
- **A primer** for use on wet supports to be later painted.
- **A primer** applicable as a connection bridge for the later application of polyurethane paints, such as **FIXAQUA FILM** on supports of dusty, crumbling or damp mortar.
- **A primer** applicable on wooden supports, metal, old ceramics, stainless steel, glass and acrylic-based membranes.
- **Protection** for COVERING PORES for mortar or concrete surfaces that are dusty or slightly crumbling. Reinforces and consolidates the surface as is directly passable and resistant to abrasion.
- Can be applied horizontally, vertically, inside and outside.
- Can be applied on terraces, flooring, swimming pools, airports, shopping areas, food areas, etc.

TECHNICAL CHARACTERISTICS

FIXAQUA PRIMER is an advanced epoxy formula with an aqueous base for priming dusty, crumbling and even wet supports, to promote their adherence. Its is characterised as:

- it has very low viscosity: it is very easy to apply.
- it has excellent adherence.
- it has a long pot life.
- it is a pre-dosed product: preventing onsite mistakes.

You should mix component A with component B.

HOW TO USE

- **Preparation of the support:**
  FIXAQUA PRIMER can be applied on dusty supports as it will fix and seal the surface suitably for the later application of paints, however, it cannot be applied to decomposed materials or those not in keeping with the base. You must also check that there is no grease, paint, tar, oil, etc. Finally, you must distinguish between a wet support and one with stagnant water. In the latter case, it will **NOT** be possible to apply the product.
- **Preparation of the mixture:**
  FIXAQUA PRIMER is pre-dosed to prevent on-site mistakes. You should mix component A with component B using an electric mixer at low revolutions for at least 3 minutes until the product is perfectly mixed. NEVER add under ANY circumstances sand, water, solvents, etc.

- **Application of the mixture:**
  FIXAQUA PRIMER has a very low viscosity, therefore it is applied very easily with a shorthaired roller, both on horizontal and vertical surfaces. Apply it evenly and continuously, sealing the entire surface area.

- **Application times:**
  The pot life of the product is ONE hour at +20°C, but it is considerably reduced at higher temperatures. However, as the product is so easy to use, the application is done very quickly.

- **Later application of the paint or polyurethane:**
  1st option: apply a coat of **FIXAQUA PRIMER** and then apply the second relevant product between the first 6 to 8 hours of drying.
  2nd option: apply a coat of **FIXAQUA PRIMER** and immediately sprinkle with **CUARZONATURAL R.** In this case, leave to dry for 24 hours and vacuum the loose sand before painting.

- **Use as a pore covering in mortar or concrete:**
  It is highly recommended to pass a vacuum cleaner over the surface before applying **FIXAQUA PRIMER**. The surface may be dusty, but not full of pieces, sand, chips, etc. Apply the **FIXAQUA PRIMER** with a woollen roller and let it dry for 24 hours. After this time, you can apply another coat if you wish for a more closed, more crystallised surface.

- **Cleaning tools:**
  All tools can be easily cleaned under running water before the **FIXAQUA PRIMER**.

CONSUMPTION:

FIXAQUA PRIMER	300 gr./m^2 applied with a shorthaired roller.

TECHNICAL SPECIFICATIONS

PRODUCTO

• Type:	Two-component epoxy resin
• Toxicity:	Irritant, avoid contact with skin and eyes. Always use gloves during use; protective goggles are recommended. In case of contact with the skin, wash with plenty of soap and water. In case of contact with the eyes, wash with plenty of running water and seek medical attention.
• Inflammable:	NO

APPLICATION

• Consistency of the mixture:	milky
• Colour of the mixture:	white
• Density of the mixture:	1,1 g/cm^3
• Application temperature:	from +5°C to +35°C
• Pot life:	1 hour (20°C, 50%H.R.)
• Final hardening:	7 days (20°C, 50%H.R.)

PERFORMANCE PROPERTIES

• Resistance to damp:	excellent
• Resistance to ageing:	excellent
• Resistance to solvents:	excellent
• Resistance to acids/alkalis:	excellent
• Adherence to wet concrete:	> 1,5 N/mm^2
• Adherence to aluminum:	> 2,0 N/mm^2

STORAGE

• In covered, dry, ventilated areas, stored in its original container, kept well closed:	12 months

PRESENTATION

• Supplied in:	pots of 4 Kg.

Use as a pore covering in mortar or concrete.

It is applied very easily with a longhaired roller.

FIXAQUA TRANS

Liquid polyurethane single component TRANSPARENT and very elastic membrane

WARNING

FIXAQUA TRANS should not be used:

- Modifying its composition. This would lead to problems with adherence, aesthetics or durability.
- Without respecting the necessary safety and self-protection measures for using an irritant, inflammable product made with solvents: use, as a minimum, gloves and a protective mask.
- On dirty, crumbling or **wet** surfaces.
- In tanks.

FIELDS OF APPLICATION

- **Continuous waterproofing, without joins or overlaps, flexible and TRANSPARENT**, installed in situ in a very easy, fast and safe way.
- **Waterproofing** applicable on top of **old tile coverings** that have lost their waterproofing efficiency, but whose aesthetic appearance you wish to maintain, in balconies, terraces, terrace roofs, etc. It is fully passable for foot traffic.
- **Protection** to reinforce **old acrylic waterproofing** that has lost it waterproofing efficiency.
- **Protection** to reinforce **new elastic polyurethane waterproofing**, such as **FIXAQUA FILM,** against UV rays.

TECHNICAL CHARACTERISTICS

FIXAQUA TRANS is a single component TRANSPARENT polyurethane elastomer with exception properties:

- it is 100% waterproof and watertight.
- it is very resistant to ultraviolet rays.
- it does not yellow and resists extreme weather.
- it is very elastic: acts as a bridge over fissures.
- chemical resistance and to microorganisms
- excellent adherence to the support.
- resistant to abrasion and impact.
- thermal resistance between-50°C and +100°C
- highly repellent to dust: easily cleaned.
- it dries quickly, even at low temperature.
- it is very easy and fast to apply.

Can be applied with an airless sprayer, brush or shorthaired roller.

HOW TO USE

- **Preparation of the support:**
  There are four conditions to respect:
  - **1º)** The support must be **clean**: remove all remains of dust, mildew, paint, wax, products for removing formwork, etc.
  - **2º)** Choose **a day without wind**, otherwise any dust will stick to the transparent film.
  - **3º)** The support must be **consistent**: it can be elastic, as would be the case with **FIXAQUA FILM**, but the base must be solid.
  - **4º)** The support must have a **humidity lower** than 4%. If applied over **FIXAQUA FILM** this must be completely dry.

- **Preparation of the product:**
  Mix **FIXAQUA TRANS** with an electric stirrer at 300-400 r.p.m. to mix it evenly.

- **Application of the product:**
  In general, **FIXAQUA TRANS** can be applied with an airless sprayer, brush or roller, preferably with 2 coats (observe the time between the two coats according to the temperature).

- **Application on top of FIX-TERRATS or similar:** You can apply **FIXAQUA TRANS** as a final, protective treatment layer on **FIX-TERRATS**. This will also give it a shiny appearance. You can also protect old acrylic waterproofing after preparing the surface.

- **Application on old tiles:**
  First clean the support. Then mix 2 parts of **FIXAQUA TRANS** with 1 part of **FIXAQUA SOLVENT** and apply with a short-haired roller. Leave it to dry 8 hours and then apply two coats of **FIXAQUA TRANS**.

- **Application on FIXAQUA FILM:**
  Once you have applied **FIXAQUA FILM** following the instructions in the technical specifications, you can improve its resistance to UV rays on flat roofs, by applying a coat of **FIXAQUA TRANS**.

- **Warning: FIXAQUA TRANS** will provide a spectacular, high-GLOSS finish. If you prefer a MATTE finish, apply a final coat of **FIXAQUA MATTE**.

- **Warning:** if it rains before the product is completely dry, the impact of the raindrops will leave closed craters on the surface. You will need to apply another coat to regularise this.

- **Warning:** you can clean all the tools with **FIXAQUA SOLVENT** before the polyurethane hardens.

CONSUMPTION:	
Primer:	**FIXAQUA TRANS** (100 gr./m^2) + **FIXAQUA DISOLVENTE** (50 gr./m^2)
FIXAQUA TRANS	400 gr./m^2 per coat
FIXAQUA MATE	300 gr./m^2 per coat

TECHNICAL DATA:	
PRODUCT	
• Type:	Impermeable membrane made with synthetic resins. It is resistant to freeze-thaw cycles and contact with chlorinated water.
• Inflammable:	yes
APPLICATION	
• Application temperature:	+ 5°C to + 35°C
• Initial adherence:	$\geq$ 2,0 N/mm^2
• Permeability to steam:	6 gr./m^2·24h.
• Elongation and Shore A hardness:	$\geq$ 250 % - 60
• Resistance to traction:	5 N/mm^2
• Service temperature:	from -30 to +90°C
• Resistance to water pressure:	no penetration (1 m water column at 24 h.)
• Good resistance to alkaline and acidic solutions (5%), detergents, sea water and oils.	
• Superficial drying:	8-12 h.
• Suitable for light transit:	24-48 h.
• Final drying:	7 days
STORAGE	
• In covered, ventilated areas:	12 months
PRESENTATION	
• Supplied in:	pots of 5 Kg. in transparent colour and **FIXAQUA MATE** is supplied in 4 Kg.

TIME BETWEEN LAYERS:		+10°C	+20°C	+30°C
Between **FIXAQUA FILM** and **FIXAQUA TRANS**:	Mín.	24 hours	8 hours	5 hours
	Máx.	5 days	3 days	2 days
Between 2 successive coats of **FIXAQUA TRANS**	Mín.	14 hours	12 hours	5 hours
	Máx.	18 hours	16 hours	12 hours
Between Primer and **FIXAQUA TRANS**	Mín.	10 hours	8 hours	5 hours
	Máx.	12 hours	10 hours	8 hours
Between **FIXAQUA TRANS** and **FIXAQUA MATTE**:		14 hours	12 hours	10 hours
FIXAQUA TRANS can be walked on after:		48 hours	24 hours	18 hours
FIXAQUA TRANS has a complete setting time of:		10 days	7 days	6 days


In general, **FIXAQUA TRANS** can be applied with an ...


...airless sprayer, brush or roller, preferably with 2 coats

FIX-TERRATS FIBRE

Elastic and fibre-reinforced paint for waterproofing exterior terraces that do not receive transit.

WARNING

- Do not apply **FIX-TERRATS FIBRE** when rain is imminent.
- Do not apply **FIX-TERRATS FIBRE** on surfaces in above +45°C, due to the effect of the sun's radiation.
- Do not apply in low temperatures. Under +5°C its will not polymerise correctly.
- Do not apply on terraces where ceramic tiles are to be laid.
- DO NOT APPLY to tanks, swimming pools, flower troughs, ponds, dikes, or places where the object is to retain water.

FIELDS OF APPLICATION

- Paint for **waterproofing flat roofs** and exterior terraces that do not receive transit.
- Enables purely domestic transit for sporadic checks on TV aerials, for small repairs outside, for hanging clothes on the clothe-shorse, etc.
- Waterproofing of vaults, **projecting eaves**, porches, walls, finishes, terraces, protective aprons, etc.
- Waterproofing **fibre cement** flat roofs.
- Waterproofing **roof tiles**, bricks, mortar or concrete surfaces.
- On the whole, it enables waterproofing **against the rain** of an exterior element with enough of a slope to enable the free drainage of the water.
- Cleaning up, repairing, in short, for **recovering the waterproofing** of flat roofs, terrace roofs, terraces, etc.
- It can also be used as paint to protect concrete **against carbonation**.

TECHNICAL SPECIFICATIONS

FIX-TERRATS FIBRE is a fluid, single component, ready-to-use and fibre-reinforced paint that is very easy to apply. It is made from elastic polymers that dry leaving a continuous surface, without overlaps, waterproof, resistant to UV rays, smoke, frost, etc.

It is high quality: for the uses described, it is more than sufficient for the most demanding regulations. In addition, its special formula means that it can be applied with a brush or roller.

HOW TO USE

- **Preparation of the support:**
  Correct, exhaustive and detailed cleaning of the support is the best guarantee to ensure a long-lasting job. There are five phases to be carried out:

1st. Remove any remains of concrete or deteriorated brick that is unconnected, not very solid, broken up, etc. Also, remove any remains of dust, mildew, paint, wax, products for removing formwork, etc.

2nd. Use **FIX-REPAR** to repair any chips, gaps pr cavities there may be on the surface to be waterproofed. In these cases, allow the Fix-Repar to dry for 24 hours.

3rd. VERY IMPORTANT: check that the slopes are sufficient for water to drain off thanks to gravity. In no case should the slope be less than 1%.

4th. The support to be treated may be slightly damp, but not soaked in water. If it is very wet, allow it to dry.

5th. The expansion joints or any possible fissures there may be on the surface to be waterproofed should previously

be sealed with the ultra elastic self-adhesive strip **FIX-BANDA**. By simply removing the protective backing paper, **FIX-BANDA** adheres with full security from side to side over the expansion joint or fissure in question.

- **Application of the mixture:**
  You should distinguish between two kinds of application, depending on the support to be waterproofed:
  - supports that are **highly** absorbent, such as concrete, mortar, fibre cement, etc.
  - supports with **low** absorption, such as old ceramic tiles, etc.

- **Application on supports that are HIGHLY absorbent:**
  First, apply a primer, with a mixture made of 2 parts clean water and 1 part **FIX-TERRATS FIBRE**.
  Once the primer is dry, apply 2 coats of **FIX-TERRATS FIBRE** with a brush or woollen roller. Between the 1st and the 2nd coats, while the 1st is still damp, you can reinforce the waterproofing by laying a sheet of fibreglass or some similar material.

- **Application on supports with LOW absorption:**
  In these cases, you should not apply a primer. Apply 2 coats of **FIX-TERRATS FIBRE** directly, using the tools described above.

- **Drying time between each coat:**
  In general, you should wait 24 hours between each coat or between the primer and the 1st coat, but in very warm periods, this time may be considerably reduced, to the extent that you could apply one coat in the morning and the second coat late in the afternoon.

- **Reinforcing the traction of the waterproofing.**
  On the whole, it is always recommendable (not obligatory) to lay a sheet of fibreglass **VELO-TERRATS-50** or a similar material between the 1st and the 2nd layers, with the aim of improving the traction resistance of the resulting waterproofing layer. This supplementary layer is laid once the 1st coat has been applied, while it is still fresh.

- **Advice for professionals.**
  FIX-TERRATS FIBRE is manufactured in Grey color, Roof Tile and Red color. If the colour of your terrace is to be, for example, Red, we recommend applying the 1st coat in Grey and the 2nd coat in Red. This is the only way you can ensure that the 2nd coat has been applied evenly and generally all over the terrace.

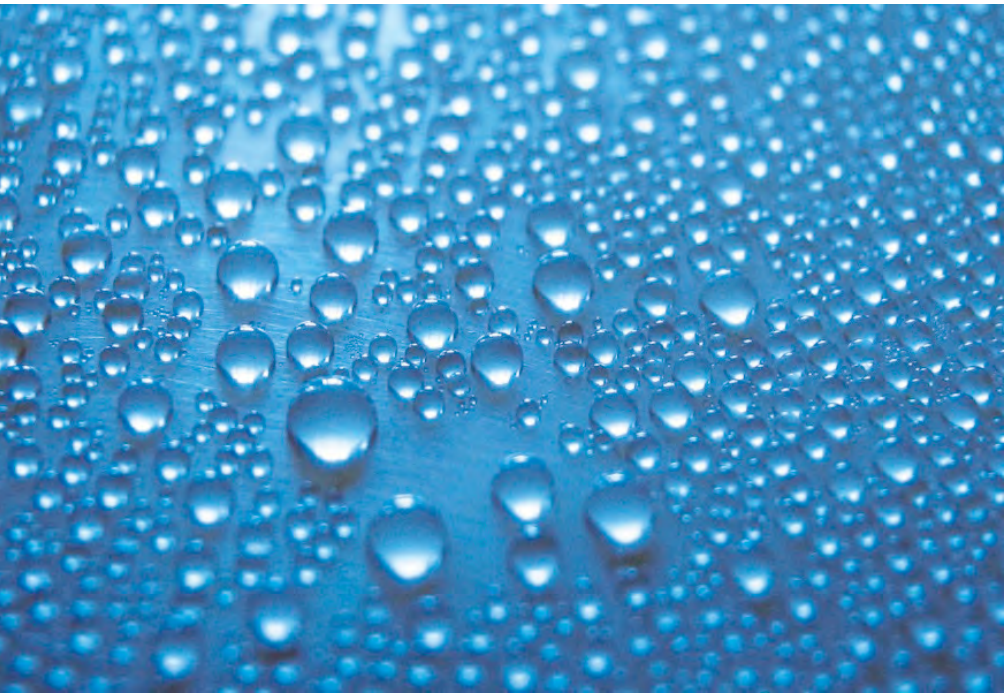
CONSUMPTION:	
For the primer:	1 Kg./m^2 of **FIX-TERRATS FIBRE**
For successive coats:	from 1 to 1.5 Kg./m^2 of **FIX-TERRATS FIBRE** per coat.

(on the whole, the consumption is greater the rougher the surface to be treated is.)

TECHNICAL SPECIFICATIONS	
DIRECTIVES	EN 1504-2 (C)
PRODUCT	
• Type:	elastic polymer
• Appearance:	fiber-reinforced paste
• Density:	1.4 g/cm^3
• Toxicity and inflammability:	NO
APPLICATION	
• Application temperature:	from +5°C to +35°C
• Drying time to touch (at +23°C):	30 minutes
• Complete drying time (a +23°C):	24 hours
PERFORMANCE PROPERTIES	
• Resistance to damp:	excellent
• Adhesion:	> 0,8 N/mm^2; flexible system without traffic load
• Water permeability:	<0.1 kg / $m^2 \cdot h^2$
• Vapor permeability:	class I, Sd<5m. Water vapor permeable
• Ash content:	27%
• Non-volatile content:	69%
STORING	
• Can be stored in dry places, not exposed to great heat or frosts:	12 months
PRESENTATION	
• Is supplied in:	25-kg, 10-kg and 1-kg buckets in Grey, Roof Tile and Red colors.

HIDROFACIL

Waterproof paint, elastic, ready to use, single-component, quick drying for terraces, showers tray, changing rooms,...



WARNING

HIDROFACIL must not be use:

- When there is a inminent threat- of rain (dries in 3 hours at +23°C).
- Below +5°C or on surfaces over +45°C.
- On surfaces with over 3 % moisture or with permanently rising darp.
- In tanks, swimming pools, dams,...
- When waterproofing without a final ceramic finish is required.
- To seal fissures, cracks,...
- In final thickness of two layers under 0.8-1.0 mm in total.

FIELDS OF APPLICATION

- **Waterproofing with ceramic finish** on:
  -balconies
  -terraces
  -bath tubs and shower trays
  -saunas, changing rooms, laundries, etc.
- This is the **easiest** type of waterproofing to use, simply open the can and start painting.
- It can be used on the following supports:
  -mortars, **PAVIFORT**, **RECRECEM PRE-MIX**,... (at relative humidity <3 %)
  -concrete (at relative humidity <3 %)
  -plasterboard
  -existing ceramic coatings.
- **Quick-dry** waterproofing: the ceramic coating can be applied in just 4 hours (at +23°C).
- Vertically and horizontally applied water-proofing.

TECHNICAL SPECIFICATIONS

HIDROFACIL is a fluid, single-component paint without any solvents and ready to use - very easy to apply. It is made from elastic polymers that dry forming a seamless surface, without overlaps, waterproof, resistan to freezing and mild alkalis.

High quality: for the uses described above it is more than sufficient to comply with the strictest regulations. Moreover, its specific formula means it can be applied with a brush, roller or airless spray.

Waterproofing of terraces prior to fitting the ceramic floor tiles.

DIRECTIONS FOR USE

- **Surface preparation:**
  Correct, thorough and meticulous cleanliness of the surface is the best guarantee for long-lasting waterproofing. Follow these steps:

  1) Remove any remains of concrete or worn floor tiles, unconnected parts, deteriorated parts, flakes, etc. Also remove any dust, mould, paint, wax, stripper, etc.

  2) On plaster coatings and non-waterproof plasterboard, apply **HIDROPRIMER** first to prime the surface and allow it to dry for at least 1 hour before applying **HIDROFACIL**.

  3) On cement surfaces, first repair the surface using **FIX-REPAR**, for any flakes or cavities on the surface to be waterproofed. In these cases, allow **FIX-REPAR** to dry for 24 hours.

  4) Check that any slopes are steep enough to drain off rainwater (at least 1 % gradient is recommended).

5) The surface to be treated may be slightly moist (<3 %), but should never be soaked with water. If this is the case, it must be allowed to dry.

6) Pay strict attention to the recommendations in the section **Useful Tips**.

◆ **Application of HIDROFACIL:**
Apply the first coat of **HIDROFACIL** using a long-nap roller, brush, metal trowel or with an airless paint spray. Apply to a minimum thickness of 0.4-0.5 mm. Allow to dry for **1 hour** (at +23°C and 50 % RH). When the **HIDROFACIL** is dry, the colour will change from its original sky blue colour to a darker blue. Apply a second coat of **HIDROFACIL** also at a thickness of 0.4-0.5 mm and allow to dry for **3 hours** (at +23°C y 50 % RH).

◆ **Useful tips:**
Apply **FIX-BANDA on corners** first, or **WATERPROOF SEALING TAPE 120/70** while the first coat is still wet.
Apply **FIX-BANDA DRAIN** around **drain sumps** first.
On delicate, deteriorated surfaces, or surfaces with micro-fissures: insert **VELO-TERRATS-50** mesh while the first coat is still wet (taking into account extra consumption of **HIDROFACIL** in this case of 0.5 kg/m^2; plus more drying time and final thickness of the waterproofing final).
On expansion joints, apply **FIX-TAPE 170 mm** or **WATERPROOF SEALING TAPE 120/70** following the relevant product instructions.

◆ **Waterproof tests:**
In general, after 12 hours (at +23°C y 50 % RH) from the application of the second coat of **HIDROFACIL**, the relevant waterproof tests can be conducted.

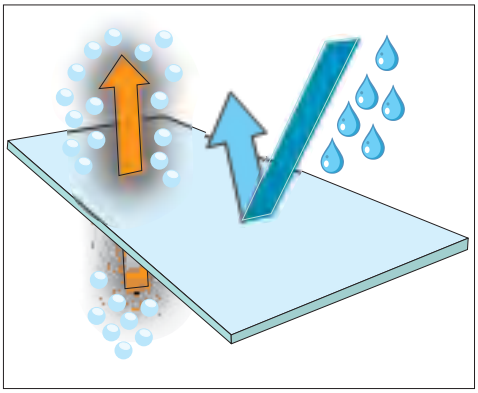
◆ **Fitting final ceramic, stone or mosaic finishes:**
In general, after 4 hours (at +23° C and 50 % RH) from application of the 2nd coat of **HIDROFACIL,** a ceramic tile finish can be applied using flexible **TECNOFLEX** or **FIXARAPID FLEX** cement glue, when the job has to be finished urgently.

Applied using:	TOTAL:	thickness per coat:	No. of coats:	final thickness:
brush, roller or airless spray	1.0-1.3 kg/m^2	0.4-0.5 mm	2 min	0.8-1.0 mm

TECHNICAL SPECIFICATIONS

DIRECTIVES:	**EN-14.891**
PRODUCT:	
• Type:	DM O2P Impermeable membrane made from polymers in aqueous dispersion. Resistant to freezing/thawing cycles and to contact with chlorinated water and lime water.
• Density:	1.30-1.40 g/cm^3
• pH:	8.5-9.5
• Toxicity	No.
APPLICATION:	
• Proportion of mix:	pre-dosed
• Application temperature:	+5°C to +35°C
• Waiting time between 1st and 2nd coat:	1 hour (at +23°C and 50 % RH)
• Waiting time before tiling:	3-4 hours (at +23°C and 50 % RH)
FINAL RESULTS:	
• Resistance to ageing:	excellent
• Resistance to weak acids/alkali:	significant
• Resistance to water with lime:	excellent
• Initial adherence:	$\geq$ 0.5 N/mm^2
• Adherence after immersion in water:	$\geq$ 0.5 N/mm^2
• Adherence after ageing with heat:	$\geq$ 0.5 N/mm^2
• Impermeability:	no penetration (at 1.5bar constant pressure/7 days)
• Resistance to fissuring even at low temperatures:	$\geq$ 0.75 mm (at -20°C)
• Adherence after freeze / thaw cycles:	$\geq$ 0.5 N/mm^2
• Adherence after immersion in chlorinated water:	$\geq$ 0.5 N/mm^2
STORAGE:	
• In ventilated covered places, and always away from freezing:	24 months
PACKAGING:	
• Supplied in:	5 kg and 25 kg drums in a Sky Blue colour.

Ideal for bathrooms, changing rooms, kitchens,...



Product permeable to steam and impermeable to water.

HIDROPROOF

Elastic paint for waterproofing exterior terraces without ceramic tile finishing. Special formula that it can be applied with an airless paint spray.

WARNING

- Do not apply **HIDROPROOF** when rain is imminent.
- Do not apply **HIDROPROOF** on surfaces in above +45ºC, due to the effect of the sun's radiation.
- Do not apply in low temperatures. Under +5ºC its will not polymerise correctly.
- Do not apply on terraces where ceramic tiles are to be laid.
- DO NOT APPLY to tanks, swimming pools, flower troughs, ponds, dikes, or places where the object is to retain water.

FIELDS OF APPLICATION

- Paint for **waterproofing flat roofs** and exterior terraces that do not receive transit.
- Enables purely domestic transit for sporadic checks on TV aerials, for small repairs outside, for hanging clothes on the clothe-shorse, etc.
- Waterproofing of vaults, **projecting eaves**, porches, walls, finishes, terraces, protective aprons, etc.
- Waterproofing **fibre cement** flat roofs.
- Waterproofing **roof tiles**, bricks, mortar or concrete surfaces.
- On the whole, it enables waterproofing **against the rain** of an exterior element with enough of a slope to enable the free drainage of the water.
- Cleaning up, repairing, in short, for **recovering the waterproofing** of flat roofs, terrace roofs, terraces, etc.
- It can also be used as paint to protect concrete **against carbonation**.

TECHNICAL SPECIFICATIONS

HIDROPROOF is a fluid, single component, ready-to-use paint that is very easy to apply. It is made from elastic polymers that dry leaving a continuous surface, without overlaps, waterproof, resistant to UV rays, smoke, frost, etc.

It is high quality: for the uses described, it is more than sufficient for the most demanding regulations. In addition, its special formula means that it can be applied with a brush, roller or with an airless paint spray.

Manual application: simple, fast and high coverage.

HOW TO USE

- **Preparation of the support:**
  Correct, exhaustive and detailed cleaning of the support is the best guarantee to ensure a long-lasting job. There are five phases to be carried out:

1st. Remove any remains of concrete or deteriorated brick that is unconnected, not very solid, broken up, etc. Also, remove any remains of dust, mildew, paint, wax, products for removing formwork, etc.

2nd. Use **FIX-REPAR** to repair any chips, gaps pr cavities there may be on the surface to be waterproofed. In these cases, allow the Fix-Repar to dry for 24 hours.

3rd. VERY IMPORTANT: check that the slopes are sufficient for water to drain off thanks to gravity. In no case should the slope be less than 1%.

4th. The support to be treated may be slightly damp, but not soaked in water. If it is very wet, allow it to dry.

5th. The expansion joints or any possible fissures there may be on the surface to be waterproofed should previously

be sealed with the ultra elastic self-adhesive strip **FIX-BANDA** (simply removing the protective backing paper) or with **BANDA IMPERMEABLE 120/70** that adheres by itself with the **HIDROPROOF** paint.

- **Application of the mixture:**
  You should distinguish between two kinds of application, depending on the support to be waterproofed:
  - supports that are **highly** absorbent, such as concrete, mortar, fibre cement, etc.
  - supports with **low** absorption, such as old ceramic tiles, etc.

- **Application on supports that are HIGHLY absorbent:**
  First, apply a mixture made of 1 part clean water and 1 part **HIDROPROOF**; apply and let to dry.

  Once the primer is dry, apply 2 coats of **HIDROPROOF** with a brush, woollen roller or airless paint spray system. Between the 1st and the 2nd coats, while the 1st is still damp, you can reinforce the waterproofing by laying a sheet of fibreglass **VELO-TERRATS-50** or some similar material.

- **Application on supports with LOW absorption:**
  In these cases apply directly 2 coats of **HIDROPROOF**, using the tools described above.

- **Drying time between each coat:**
  In general, you should wait 24 hours between each coat, but in very warm periods, this time may be considerably reduced, to the extent that you could apply one coat in the morning and the second coat late in the afternoon.

- **Reinforcing the traction of the waterproofing.**
  On the whole, it is always recommendable (not obligatory) to lay a sheet of fibreglass or a similar material between the 1st and the 2nd layers, with the aim of improving the traction resistance of the resulting waterproofing layer. This supplementary layer is laid once the 1st coat has been applied, while it is still fresh.

- **Advice for professionals.**
  HIDROPROOF is manufactured in Grey color, Roof Tile and Red color. If the colour of your terrace is to be, for example, Red, we recommend applying the 1st coat in Grey and the 2nd coat in Red. This is the only way you can ensure that the 2nd coat has been applied evenly and generally all over the terrace.

CONSUMPTION:	
Total:	from 1 to 1.25 Kg./m^2 of **HIDROPROOF** (on the whole, the consumption is greater the rougher the surface to be treated is.)

TECHNICAL SPECIFICATIONS	
DIRECTIVES	EN 1504-2 (C)
PRODUCT	
• Type:	elastic polymer
• Appearance:	fiber-reinforced paste
• Density:	1.4 g/cm^3
• Viscosity:	25.000 mPa/s
• Toxicity and inflammability:	NO
APPLICATION	
• Application temperature:	from +5°C to +35°C
• Drying time to touch (at +23°C):	30 minutes
• Complete drying time (a +23°C):	24 hours
PERFORMANCE PROPERTIES	
• Resistance to damp:	excellent
• Adhesion:	> 0,8 N/mm^2; flexible system without traffic load
• Water permeability:	w<0.1 kg / $m^2 \cdot h^2$
• Vapor permeability:	class I, Sd<5m. Water vapor permeable
• Ash content:	28%
• Non-volatile content:	65%
STORING	
• Can be stored in dry places, not exposed to great heat or frosts:	12 months
PRESENTATION	
• Is supplied in:	25-kg, buckets in Grey, Roof Tile and Red colors.

FIXCER

WATERPROOFING PRODUCTS FOR SWIMMING POOLS

HIDROELASTIC

HIGHLY ELASTIC, WATERPROOF mortar, ideal for pools, pool beaches, shower trays, changing rooms, tanks,... COMPLETELY WATERPROOF.

◆ **WATERTIGHTNESS GUARANTEE:** Whether a pool, tank, etc. is waterproof is the **SOLE RESPONSIBILITY** of its concrete structure. Its construction, stability, dimensions, the quality of the concrete, its placement, the formation of cracks, etc. are not the responsibility of waterproofing with **HIDROELASTIC. HIDROELASTIC** is fully compliant with the EN 14.891 standard and maintains its waterproofing properties at both low (-5°C) and very low (-20°C) temperatures in ≥0,75 mm fissures. These are the maximum watertight sealing guarantees offered by **HIDROELASTIC**. Consequently, check first that the dimensional stability of the structure does not require a higher-grade performance.

FIELDS OF APPLICATION

1) **ELASTIC waterproofing for pools**, ponds, tanks, canals, etc. for the subsequent laying of ceramic tiles.
2) **ELASTIC waterproofing of pool beaches** with complete safety, for the subsequent laying of ceramic tiles.
3) **Waterproofing** of **ceramic shower trays** with maximum elasticity.
4) **Waterproofing** of balconies, terraces, outdoor rooftop terraces,.. for the subsequently laying of ceramic tiles.
5) Crack-bridging waterproofing, for use on substrates with **micro-fissures** or which could develop **micro-fissures**.
6) Prefabricated structures and/or concrete **blocks**
7) On the exterior of **earth-retaining** walls for subsequent protection with a geotextile sheet.
8) Waterproofing of bathrooms, changing rooms, balconies, etc., for the subsequent laying of ceramic tiles with **TECNOCOL FLEX** or **TECNOJUNTA FLEX**.

TECHNICAL CHARACTERISTICS

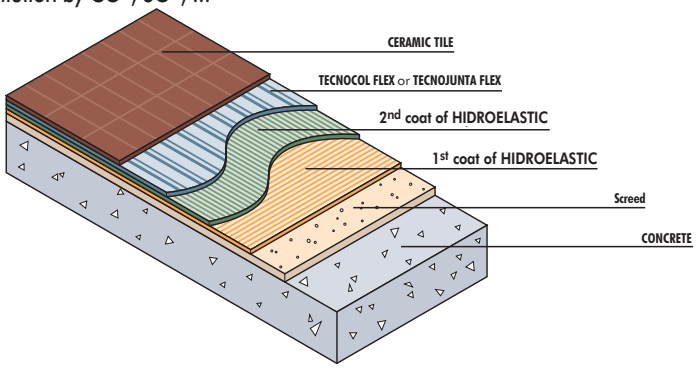
HIDROELASTIC is an **ELASTIC** mortar for **WATERPROOFING** all types of building substrates that may or may not become deformed. Its characteristics are unique:

- ◆ Great flexibility and elasticity.
- ◆ Total adherence to the substrate, without retraction.
- ◆ Completely waterproof.
- ◆ **Ceramic tiles can be laid over it.**
- ◆ Easy to apply with a brush, notched trowel, roller or it can be applied using the airless system.
- ◆ Resistant to the effects of salt or somewhat acid water, and atmospheric pollution by CO^2, SO^2, ...

HOW TO USE

1) **step:** the substrates should be resistant, solid and free from dust, paint, wax, release agents, oils and grease. They should also be perfectly setting.

2) **step:** before applying **HIDROELASTIC**, we recommend applying **BANDA IMPERMEABLE 120/70** or **FIX-BANDA** to all corners, vertices, drains and expansion joints to ensure that such critical points are fully sealed. **FIX-BANDA** is an ultra-elastic butyl that is very easy to apply: all you have to do is remove the protective paper.



3) step: in the summer or on highly absorbent substrates, saturate the substrate first with water, eliminating all excess water and preventing puddles from forming.

4) step: **HIDROELASTIC** is a pre-dosed product: DO NOT ADD ANYTHING ELSE. Pour the liquid from the small tub into the large tub and then add the powder. MIX using an electric mixer. The resulting mixture must be homogeneous.

5) step: apply a **1st coat** of **HIDROELASTIC** using a **brush or a flat trowel**, or a pneumatic spraying system This coat **should not be more than 2 mm** thick.

6) step: allow the 1st coat to dry for approx. 4 hours.

7) step: apply a **2nd coat** of **HIDROELASTIC perpendicular to the1st coat**. If applying using an airless system, apply a 3rd coat.

WARNING: in pools or tanks, apply at least 2 coats each with a thickness of 1 mm. in order to withstand positive pressures of 3 bar at most. More coats mean more protection (always apply coats at most 1 mm thick), meaning that for more pressure, you should increase the number of coats.

◆ **LAYING OF CERAMIC TILES OVER HIDROELASTIC:**
Some 24 to 36 hours (at +20°C) after applying the **HIDROELASTIC,** you may then go on to lay the ceramic tiles using a cementitious adhesive that meets the requirements for adhering waterproof sheets, such as **TECNOCOL FLEX**. For glazed mosaic tiles, use White **TECNOJUNTA FLEX**.

◆ **WARNING: HIDROELASTIC** must not be used:
- Under counterpressure (use **HIDROFIX**)
- At temperatures below +5°C.
- At thicknesses greater than 1 mm per coat.
- On very dry substrates that need water (especially on hot days).
- Adding cement or water to the original formula.
- On instable concrete structures with technical requirements that are higher than those offered by **HIDROELASTIC** (consult the Technical Dept.)
- On roofs without a final ceramic protective coating.

Applied with	TOTAL CONSUMPTION:	thickness per coat:	number of coats:	Final thickness:
brush or roller	2.50 kg/m^2	1 mm.	2 mín.	2 mm.
airless system	2.50 kg/m^2	0.66 mm.	3 mín.	2 mm.

TECHNICAL DATA:

STANDARDS:	EN-14.891
PRODUCT:	
• Type:	CM O2P Impermeable membrane made with hydraulic cements modified with polymers. Resistant to freezing/thawing cycles and contact with chlorinated water. Membrane suitable for contact with drinking water
• Density of the powder:	1.3 g/cm^3
• Chloride content:	0 %
• Toxicity	Prolonged contact with the powder could irritate the skin and/or eyes.
APPLICATION:	
• Mixture proportion:	ready-dosed
• Density of the mixture:	1.5 gr./cm^3
• Application temperature:	+ 5°C to + 35°C
• Shelf life:	2 hours
• Waiting time between coats:	from 4 to 5 hours
• Waiting time for tiling:	between 24 and 36 hours at +20°C
FINAL PERFORMANCE:	
• Resistance to salt water:	excellent
• Resistance to weak acids/alkalis:	extremely good
• Resistance to carbonatation:	excellent
• Initial adherence:	≥0.5 N/mm^2
• Adherence after immersion in water:	≥0.5 N/mm^2
• Adherence after aging with heat:	≥0.5 N/mm^2
• Watertightness:	without penetration (1.5 bar; 7 days)
• Resistance to the development of fissures, even at low temp.:	≥ 0.75 mm (at -20°C)
• Adherence after freezing-thawing cycles:	≥0.5 N/mm^2
• Adherence after immersion in chlorinated water:	≥0.5 N/mm^2
STORAGE:	
• In a covered, ventilated place:	12 months
PRESENTATION:	
• Supplied in:	30, 20 or 5 kg units, in grey

Applying a 1st coat of **HIDROELASTIC.**

Applying a 2nd coat of **HIDROELASTIC**.

HIDROFIX

Mortar for sealing swimming pools, tanks, lift shafts, etc.
Maximum flexibility and safety.
Resists negative pressures.

◆ **WATERPROOF GUARANTEE:**

Whether a pool, tank, etc. is waterproof is the **SOLE RESPONSIBILITY** of its concrete structure. Its construction, stability, dimensions, the quality of the concrete, its placement, the formation of cracks, etc. are not the responsibility of waterproofing with **HIDROFIX**. **HIDROFIX** is used to waterproof stable structures and perfectly weathers the formation of small fissures in the structure, but if cracks develop in the concrete, the same cracks will also break the **HIDROFIX**. That is why we recommend ALWAYS testing **whether your structure is waterproof** to ensure that the concrete is structurally sound before applying **HIDROFIX**.

FIELDS OF APPLICATION

1) **Waterproofing swimming pools**, ponds, tanks, basements, etc.
2) Waterproofing surfaces with **micro-fissures**.
3) Pre-fabricated structures and/or **concrete** blocks.
4) Protecting the **outdoor walls** of buildings.
5) **Containing walls** with a protective geotextile sheet.
6) Tunnels, irrigation ditches and **channels**.
7) Lift cabs. Waterproof, even under hydrostatic pressure (e.g. below the water table).
8) Waterproofing bathrooms, showers, balconies, etc. for laying ceramic tile with **FIXSET FLEX** or **TECNOCOL FLEX** or **TECNOJUNTA FLEX**.

TECHNICAL SPECIFICATIONS

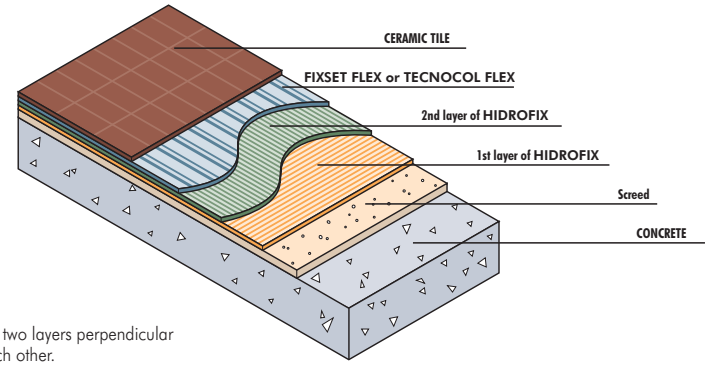
HIDROFIX is a cementitious, single-component mortar that protects and waterproofs all sorts of brick, concrete and mortar joints from water and humidity. Its flexible nature allows you to cover micro-fissures that form in concrete structures subject to deformation. It is set apart by one-of-a-kind characteristics, such as:

- ◆ Great adherence to the substrate.
- ◆ Fully waterproof.
- ◆ Ceramic finish possible.
- ◆ No shrinkage.
- ◆ Easy to apply with a paintbrush, fine trowel or roller.
- ◆ Considerable mechanical resistance.
- ◆ Resists the effects of saline and slightly acidic water, CO^2, SO^2, etc. pollution

HOW TO USE

1st step: the substrates should be resistant, solid and free of dust, paint, wax, release agents, oils and grease. They should also be perfectly setting.

2nd step: before applying **HIDROFIX**, we recommend applying **BANDA IMPERMEABLE 120/70** or **FIX-BANDA** to all corners, vertices and drains to ensure that such critical points are fully sealed. **FIX-BANDA** is an ultra elastic butyl that is easy to apply: all you have to do is remove the protective paper.



Apply two layers perpendicular to each other.

3rd step: wet the surface until it is saturated, eliminating excess water and avoiding the formation of pools of water.

4th step: to prepare the mortar, mix the full sack of 25 kg with 6.0 litres of clean water. **The mixture must be mixed slowly** with an electric mixer to keep air from getting into it. The resulting mixture should be fully homogenous.

5th step: apply a **1st layer** of **HIDROFIX** with a **paintbrush, flat trowel**, or a pneumatic spray system. This layer **should not be more than 2 mm** thick. **We recommend** placing a **NET-HIDRO-80** 5x5 mm fibre-glass mesh on top of this **1st layer while it is still fresh**. This mesh notably improves the sealant's traction resistance.

6th step: allow the 1st layer to dry for approx.. 4 hours.

7th step: apply a **2nd layer** of **HIDROFIX perpendicular to the first**.

ATTENTION: we recommend applying at least 2 layers of 1 mm each in swimming pools or tanks that will contain water with a positive pressure of up to 3 bar and/or a negative pressure of up to 1.5 bar. Remember: more layers mean more protection (always apply layers at most 1 mm thick), meaning that for more pressure, you should increase the number of layers.

◆ **LAYING CERAMIC TILE ON HIDROFIX:** Some 24 to 36 hours (at +20°C) after applying the **HIDROFIX**, you may then go on to lay the ceramic tile using a cementitious adhesive that meets the regulations for adhering waterproof sheets, such as **FIXSET FLEX** or **TECNOCOL FLEX** or White **TECNOJUNTA FLEX** for glass mosaic tile.

◆ **ATTENTION: HIDROFIX** should not be used:

- At temperatures lower than +5°C.
- In layers thicker than 1 mm each.
- On surfaces that have not first been saturated with water (especially on hot days).
- Modifying the formula or altering the powder-water ratio.
- On unstable concrete structures or structures subject to shifting ground (consult with the Tech. Dept.)
- Without first **waterproof testing** and guaranteeing the structural stability of the concrete shell.

CONSUMPTION:

1.25 kg/m^2 per 1 mm layer (apply at least 2 layers)

TECHNICAL SPECIFICATIONS

DIRECTIVES	EN-14.891
PRODUCT	
• Type:	CM O1P Impermeable membrane made with hydraulic cements modified with polymers. Resistant to freezing/thawing cycles and contact with chlorinated water. Membrane suitable for contact with drinking water.
• Density:	1.2 g/cm^3
• Toxicity:	Extended contact with the powder could irritate the skin and/or eyes.
• Drinking water contact:	according to RD 140/2003
APPLICATION	
• Mix ratio:	25 kg of powder / 6 litres of water
• Density of mixture:	1.7 g/cm^3
• Application temperature:	+5°C to +35°C
• Pot life:	1 hour
• Wait time between layers:	4 to 5 hours
• Wait time before laying **tiles**:	24 to 36 hours at +20 °C
FINAL PERFORMANCE:	
• Resistance to saline waters:	excellent
• Resistance to weak acids/alkalis:	notable
• Resistance to carbonation:	excellent
• Initial adherence after 28 days:	$\geq$ 0.5 N/mm^2
• Adherence after immersion in water:	$\geq$ 0.5 N/mm^2
• Adherence after heat aging:	$\geq$ 0.5 N/mm^2
• Impermeability:	no penetration (1,5bar constant pressure/7days)
• Resistance to cracking:	$\geq$ 0.75 mm (-5 °C)
• Adherence after freezing/thawing cycles:	$\geq$ 0.5 N/mm^2
• Adherence after immersion in chlorinated water:	$\geq$ 0.5 N/mm^2
STORAGE	
• In covered, ventilated areas for:	12 months
PRESENTATION	
• Supplied in:	25 kg bags in Grey and White

The 1st coat of **HIDROFIX**.

The 2nd coat of **HIDROFIX**.

IMPERTOT

HIGHLY FLEXIBLE, WATERPROOF mortar, ideal for pools, pool beaches, shower trays, changing rooms, tanks,... COMPLETELY WATERPROOF. Resists negative pressures.

◆ **WATERTIGHTNESS GUARANTEE:** Whether a pool, tank, etc. is waterproof is the **SOLE RESPONSIBILITY** of its concrete structure. Its construction, stability, dimensions, the quality of the concrete, its placement, the formation of cracks, etc. are not the responsibility of waterproofing with **IMPERTOT. IMPERTOT** is fully compliant with the EN 14.891 standard and maintains its waterproofing properties at both low (-5°C) temperatures in ≥0,75 mm fissures. These are the maximum watertight sealing guarantees offered by **IMPERTOT**. Consequently, check first that the dimensional stability of the structure does not require a higher-grade performance.

FIELDS OF APPLICATION

1) HIGHLY **FLEXIBLE waterproofing for pools**, ponds, tanks, canals, etc.
2) HIGHLY **FLEXIBLE waterproofing of pool beaches** with complete safety.
3) **Waterproofing** of **ceramic shower trays** with maximum flexibility.
4) **Waterproofing** of balconies, terraces, outdoor rooftop terraces,...
5) Crack-bridging waterproofing, for use on substrates with **micro-fissures** or which could develop **micro-fissures**.
6) Prefabricated structures and/or concrete **blocks.**
7) On the exterior of **earth-retaining** walls for subsequent protection with a geotextile sheet.
8) Waterproofing of bathrooms, changing rooms, balconies, etc., for the subsequent laying of ceramic tiles with **TECNOCOL FLEX**, **FIXAGRES FLEX** or **FIXSET FLEX** according to the size of the ceramic.

TECHNICAL CHARACTERISTICS

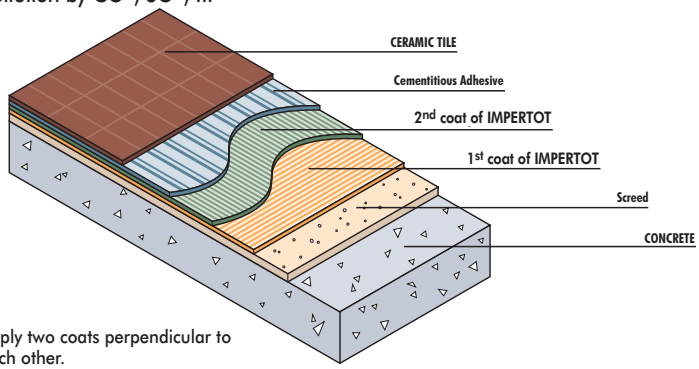
IMPERTOT is a HIGHLY **FLEXIBLE** mortar for **WATERPROOFING** all types of building substrates that may or may not become deformed. Its characteristics are unique:

- ◆ Great flexibility.
- ◆ Total adherence to the substrate, without retraction.
- ◆ Completely waterproof.
- ◆ **Ceramic tiles can be laid over it.**
- ◆ Easy to apply with a brush, notched trowel, roller or it can be applied using the airless system.
- ◆ Resistant to the effects of salt or somewhat acid water, and atmospheric pollution by CO^2, SO^2, ...

HOW TO USE

1) **step:** the substrates should be resistant, solid and free from dust, paint, wax, release agents, oils and grease. They should also be perfectly setting.

2) **step:** before applying **IMPERTOT**, we recommend applying **BANDA IMPERMEABLE 120/70** or **FIX-BANDA** to all corners, vertices, drains and expansion joints to ensure that such critical points are fully sealed. **FIX-BANDA** is an ultra-FLEXIBLE butyl that is very easy to apply: all you have to do is remove the protective paper.



Apply two coats perpendicular to each other.

3) **step:** in the summer or on highly absorbent substrates, saturate the substrate first with water, eliminating all excess water and preventing puddles from forming.

4) **step:** **IMPERTOT** is a pre-dosed product: DO NOT ADD ANYTHING ELSE.
Pour the liquid into a bucket and then add the powder. MIX using a fast electric mixer. The resulting mixture must be homogeneous.

5) **step:** apply a **1st coat of IMPERTOT** using a **brush or a flat trowel**, or a pneumatic spraying system This coat **should not be more than 2 mm** thick.

6) **step:** allow the 1st coat to dry for approx. 4 hours.

7) **step:** apply a **2nd coat** of **IMPERTOT perpendicular to the1st coat**. If applying using an airless system, apply a 3rd coat.

WARNING: in pools or tanks, apply at least 2 coats each with a thickness of 1 mm. in order to withstand positive pressures of 3 bar at most. More coats mean more protection (always apply coats at most 1 mm thick), meaning that for more pressure, you should increase the number of coats.

◆ **LAYING OF CERAMIC TILES OVER IMPERTOT:**
Some 24 to 36 hours (at +20°C) after applying the **IMPERTOT,** you can then go on to lay the ceramic tiles using a cementitious adhesive that meets the requirements for adhering waterproof sheets, such as **TECNOCOL FLEX** for large pieces, **FIXAGRES FLEX** for porcelain stoneware or **FIXSET FLEX** for glass mosaic.

◆ **WARNING: IMPERTOT** must not be used:
- At temperatures below +5°C.
- At thicknesses greater than 1 mm per coat.
- On very dry substrates that need water (especially on hot days).
- Adding cement or water to the original formula. Exception: for application by airless can add 1 liter of water per unit of 32 kgs.
- On instable concrete structures with technical requirements that are higher than those offered by **IMPERTOT** (consult the Technical Dept.)

Applied with	TOTAL CONSUMPTION:	thickness per coat:	number of coats:	Final thickness:
brush or roller	2.50 kg/m^2	1 mm.	2 mín.	2 mm.
airless system	2.50 kg/m^2	0.66 mm.	3 mín.	2 mm.

TECHNICAL SPECIFICATIONS

STANDARDS:	EN-14.891
PRODUCT:	
• Type:	CM O1P Impermeable membrane made with hydraulic cements modified with polymers. Resistant to freezing/thawing cycles and contact with chlorinated water. Membrane suitable for contact with drinking water
• Density of the powder:	1.3 g/cm^3
• Toxicity	Prolonged contact with the powder could irritate the skin and/or eyes.
APPLICATION:	
• Mixture proportion:	ready-dosed
• Density of the mixture:	1.6 gr./cm^3
• Application temperature:	+ 5°C to + 35°C
• Shelf life:	2 hours
• Waiting time between coats:	from 4 to 5 hours
• Waiting time for tiling:	between 24 and 36 hours at +20°C
FINAL PERFORMANCE:	
• Resistance to salt water:	excellent
• Resistance to weak acids/alkalis:	extremely good
• Resistance to carbonatation:	excellent
• Initial adherence:	$\geq$0.5 N/mm^2
• Adherence after immersion in water:	$\geq$0.5 N/mm^2
• Adherence after aging with heat:	$\geq$0.5 N/mm^2
• Watertightness:	no penetration (1,5bar constant pressure/7days)
• Resistance to the development of fissures, even at low temp.:	$\geq$ 0.75 mm (at -5°C)
• Adherence after freezing-thawing cycles:	$\geq$0.5 N/mm^2
• Adherence after immersion in chlorinated water:	$\geq$0.5 N/mm^2
STORAGE:	
• In a covered, ventilated place:	12 months
PRESENTATION:	
• Supplied in:	32 kg units, in grey

Applying a 1st coat of **IMPERTOT.**

Applying a 2nd coat of **IMPERTOT**.

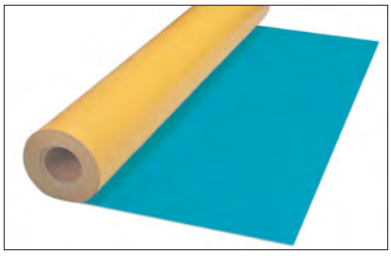
LAMINA PROOF

FLEXIBLE and WATERPROOF liners for terraces, in changing rooms, bathrooms...and concrete pools. Glass mosaic tiles can be laid directly over the liners.

WARNING

LAMINA PROOF must not be used:

- For other applications without consulting our Engineering Department previously.
- On surfaces that are dirty, broken, with traces of non-stick materials...
- Over surfaces unable to withstand a minimum resistance of 0.5 N/mm^2



FIELDS OF APPLICATION

OPTION 1: using only LAMINA PROOF:

- Liner for waterproofing mortar or concrete surfaces using an adhesive cement such as C2S1.
- Can be used on balconies, terraces, in changing rooms, bathrooms, on flat roofs, in public spaces, etc. for waterproofing and subsequent tiling.
- The great flexibility of this product and its resistance to traction makes it ideal for waterproofing cement surfaces with cracks and fissures.

OPTION 2: combined with LAMINA STEEL:

- The ideal and very affordable solution for tiling galvanized steel and stainless steel pools in ceramic or glass mosaic.
- This is the best aesthetic solution for galvanized steel pools, replacing the traditional PVC liner.

TECHNICAL SPECIFICATIONS

LAMINA PROOF: three-layer lining comprising:

-two polypropylene layers +
-one polyethylene layer with a special textile that allows tiles to be applied with adhesive cement without the need for an intermediate layer.

Liner certified and approved for category A1, A2 and C loads and for the load categories given in the ZDB specifications.

Liner resistant to bases, salt water, acids and micro-organisms.

DIRECTIONS FOR USE

- **Substrate preparation:**
  Proper, thorough, and meticulous cleaning of the substrate is the best guarantee for a lasting hold.
  For cement surfaces: remove any traces of damaged, loose, crumbly or flaky concrete, dust, paint, wax, release agents, etc.

- **Applying LAMINA PROOF:**
  Apply adhesive cement, such as C2S1, over the mortar or concrete substrate using a square-notched trowel with the largest notch width 4x4-mm notch; immediately position the first sheet of **LAMINA PROOF** liner and press down with the smooth trowel edge to remove any bubbles of trapped air and producing perfect adhesion of the adhesive to the geotextile side.
  Apply the next sheet of **LAMINA PROOF** liner:
  -on terraces: overlapping the previous sheet by 5 cm., or
  -in swimming pools without overlapping, ie laying one sheet next to the other.

◆ **Applying BANDA-SOLAPES sealing tape:**

-on terraces: there is no need to apply the **BANDA-SOLAPES** strips to the joints between **LAMINA PROOF** sheets because they are overlapped to provide a good seal.

-for concrete pools: apply **BANDA-SOLAPES** strips to **all** the joints between **LAMINA PROOF** sheets.

-**for galvanized steel** and stainless steel pools: consult the Technical Department.

◆ **Attaching ceramic or glass mosaic tiles:** Tile directly over the different **LINERS** on walls and floor using an adhesive cement such as **TECNOCOL FLEX.**

◆ **Grouting:**

-on terraces: we recommend using **EURO-COLOR FLEX.** Available pre-dosed in 24 different colours.

-for concrete pools: the appropriate grout for use in **ALL** cases is **CERPOXI** or **PROFESSIONAL PX**, available pre-dosed in 26 different colours.

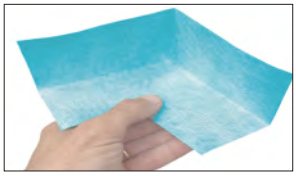
-**for galvanized steel** and stainless steel pools: consult the Technical Department.

APPLICATION DOSAGE:	
LAMINA PROOF	proportional to the m^2 to seal plus joint waterproofing
EPOXICOL	approx. 0.3-0.5 kg/lm of sealing tape BANDA SOLAPES

TECHNICAL INFORMATION	
LAMINA PROOF: Standards:	UNE-EN 13.956:2013
• Waterproofing :	1.5 bar (version B)
• Burst pressure:	3.0 bar
• Resistance to traction L/T :	L=370 N/50mm and T=250 N/50mm
• Elongation at break L/T :	L=90% and T= 120%
• Resistance to tearing :	L=100 and T=140N
• Temperature resistance:	-30°C / +90°C
• Reaction to fire:	Class B2
• Format:	1 x 30lm and 0.62mm thick
(L=longitudinal; T=transversal)	
Sealing Tape (BANDA-SOLAPES): Format:	14cm x 50ml.
Preformed Sealing Corner (BANDA-ESQUINAS): Format: 12cm x 12cm x 12cm	

COLLAR-FOR-TUBES from 12 to 22 mm diameter

Apply the **BANDA-SOLAPES** strips to the joints between **LAMINA PROOF** sheets.

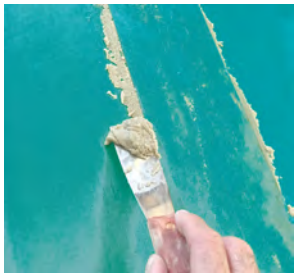


Apply the **BANDA-ESQUINAS** at all 90° angles in the pool.

LAMINA PROOF tare guaranteed waterproof and achieve an unbeatable aesthetic finish.

Apply **EPOXICOL** between the sheets of **LAMINAS** to attach the **BANDA-SOLAPES** waterproofing strips.

Press firmly on the **BANDA-SOLAPES** with a smooth-edged trowel.



Remove the excess **EPOXICOL** from both sides of the **BANDA-SOLAPES strips**.

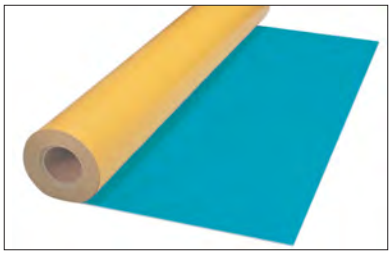
LAMINA STEEL & LAMINA PROOF

FLEXIBLE and WATERPROOF liners for galvanized steel, stainless steel and concrete swimming pools. Ceramic or glass mosaic tiles can be laid directly over the liners.

WARNING

LAMINA STEEL and LAMINA PROOF must not be used:

- For other applications without consulting our Engineering Department previously.
- On surfaces that are dirty, broken, with traces of non-stick materials…
- Over surfaces unable to withstand a minimum resistance of 0.5 N/mm^2



FIELDS OF APPLICATION

OPTION 1: Combining the two liners:

- The ideal and very affordable solution for tiling galvanized steel and stainless steel pools in ceramic or glass mosaic.
- This is the best aesthetic solution for galvanized steel pools, replacing the traditional PVC liner.

OPTION 2: using only LAMINA PROOF:

- Liner for waterproofing mortar or concrete surfaces using an adhesive cement such as C2S1.
- Can be used on balconies, terraces, in changing rooms, bathrooms, on flat roofs, in public spaces, etc. for waterproofing and subsequent tiling.
- The great flexibility of this product and its resistance to traction makes it ideal for waterproofing cement surfaces with cracks and fissures.

TECHNICAL SPECIFICATIONS

LAMINA STEEL: three-layer, **self-adhesive** liner comprising:

-synthetic rubber adhesive +
-two polyethylene layers +
-one polypropylene layer with a special textile that allows tiles to be applied with adhesive cement without the need for an intermediate layer.

Liner certified and approved for category A1, A2 and C loads. Tested according to: DIN 500143-23/50-2, DIN 16726, DIN EN ISO 527, DIN 13484 and DIN EN 1931.

LAMINA PROOF: three-layer lining comprising:

-two polypropylene layers +
-one polyethylene layer with a special textile that allows tiles to be applied with adhesive cement without the need for an intermediate layer.

Liner certified and approved for category A1, A2 and C loads and for the load categories given in the ZDB specifications.

Both liners are resistant to bases, salt water, acids and micro-organisms.

DIRECTIONS FOR USE

- **Substrate preparation:**
  Proper, thorough, and meticulous cleaning of the substrate is the best guarantee for a lasting hold.
  For metal surfaces: clean all the surfaces with transparent acetone. It is essential to remove any traces of organic material, oil and grease.
  For cement surfaces: remove any traces of damaged, loose, crumbly or flaky concrete, dust, paint, wax, release agents, etc.

- **Applying LAMINA STEEL:**
  Spray a little distilled water over the galvanized panels; immediately position the first sheet of **LAMINA STEEL** liner, pressing firmly and removing any bubbles of trapped air using a rubber squeegee (see photo). Apply the next **LAMINA STEEL** liner sheet without overlapping the previously laid one.

- **Applying LAMINA PROOF:**
  Apply adhesive cement, such as C2S1, over the mortar or concrete substrate using a square-notched trowel with the largest notch

width 4x4-mm notch; immediately position the first sheet of **LAMINA PROOF** liner and press down with the smooth trowel edge to remove any bubbles of trapped air and producing perfect adhesion of the adhesive to the geotextile side.
Apply the next sheet of **LAMINA PROOF** liner:
-on terraces: overlapping the previous sheet by 5 cm., or
-in swimming pools without overlapping, ie laying one sheet next to the other.

◆ **Applying BANDA-SOLAPES sealing tape:**

-for galvanized steel pools: on walls, apply **BANDA-SOLAPES** strips to **all** the joints between **LAMINA STEEL** sheets, glued on with **EPOXICOL** to strengthen the water-proofing of the joints.
Likewise, apply the **BANDA-SOLAPES** strips to all corners between walls and the floor.

-for concrete pools: apply **BANDA-SOLAPES** strips to **all** the joints between **LAMINA PROOF** sheets.

-on terraces: there is no need to apply the **BANDA-SOLAPES** strips to the joints between **LAMINA PROOF** sheets because they are overlapped to provide a good seal.

◆ **Attaching ceramic or glass mosaic tiles:**
Tile directly over the different **LINERS** on walls and floor using an adhesive cement such as **TECNOCOL FLEX.**

◆ **Grouting:**
The appropriate grout for use in **ALL** cases is **CERPOXI** or **PROFESSIONAL PX**, available pre-dosed in 25 different colours.

APPLICATION DOSAGE:	
LAMINA PROOF & LAMINA STEEL	proportional to the m^2 to seal plus joint waterproofing
EPOXICOL	approx. 0.3-0.5 kg/lm of sealing tape BANDA SOLAPES

TECHNICAL INFORMATION

LAMINA PROOF:

• Standards:	UNE-EN 13.956:2013
• Waterproofing :	1.5 bar (version B)
• Burst pressure:	3.0 bar
• Resistance to traction L/T :	L=370 N/50mm and T=250 N/50mm
• Elongation at break L/T :	L=90% and T= 120%
• Resistance to tearing :	L=100 and T=140N
• Temperature resistance:	-30°C / +90°C
• Reaction to fire:	Class B2
• Format:	1 x 30lm and 0.62mm thick

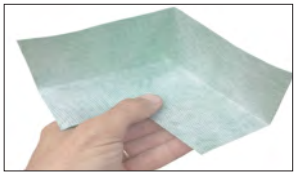
(L=longitudinal; T=transversal)

LAMINA STEEL:

• Standards:	UNE-EN 13.956:2013
• Waterproofing :	2.3 bar
• Breaking load:	L=58.6 N / 15mm ; T=32.2 N / 15mm
• Peel strength:	>10N/20mm
• Resistance to temperature:	-5°C - +60°C
• Reaction to fire:	Class F
• Format:	1 x 20lm and 0.7mm thick

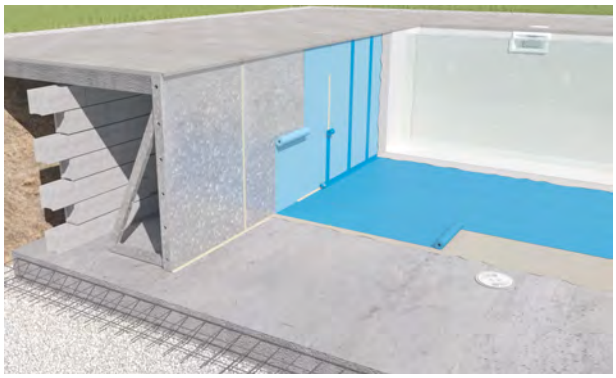
Sealing Tape (BANDA-SOLAPES):
• Format: 14cm x 50ml.

Preformed Sealing Corner (BANDA-ESQUINAS):
• Format: 12cm x 12cm x 12cm



Apply the **BANDA-ESQUINAS** at all 90° angles in the pool.

Squeegee for applying **LAMINA STEEL** liners to walls.



LAMINA STEEL and **LAMINA PROOF** tare guaranteed waterproof and achieve an unbeatable aesthetic finish.

Apply **EPOXICOL** between the sheets of **LAMINAS** to attach the **BANDA-SOLAPES** waterproofing strips.

Press firmly on the **BANDA-SOLAPES** with a smooth-edged trowel.

Remove the excess **EPOXICOL** from both sides of the **BANDA-SOLAPES strips**.

TRIPLE F GEL

FABULOUS, FUNCTIONAL, FIXCER

For WATERPROOFING, TILING and GROUTING. The definitive product: the easiest, waste-free, straightforward, with GEL texture and there's no need to overstock. THREE-IN-ONE PRODUCT.

WARNING

TRIPLE F GEL must not be used:

- On substrates made of metal, plastic, PVC, rubber, unseasoned (green) wood, etc. (use **ELASTICER**).
- To attach tiles with a high coefficient of thermal expansion, such as Silestone (consult Engineering Dept.)
- Outside of the permitted temperature range.
- To lay or hang ceramic tiles over other waterproofing products without first consulting the Engineering Dept.
- If the original formula has been adulterated in any way.
- On outdoor surfaces during periods of heat without double bonding.

FIELDS OF APPLICATION

- **TRIPLE F GEL** is specifically formulated to COMPLY FULLY WITH STANDARDS EN-14.891, EN 1504-2, EN-12.004 and EN-13.888, allowing its use, respectively, as:
  - -**waterproofing agent**
  - -**adhesive** cement
  - -**grout** waterproof
- The ideal THREE-IN-ONE product for **waterproofing**, **tiling** and **grouting** preventing losses, waste, dosage errors, mistakes, reduced productivity, etc.
- Ideal for waterproofing, attaching and grouting ceramic and glass mosaic tiles in swimming pools with traditional chlorination, bathrooms, changing rooms, saunas, kitchens, etc.
- Ideal for **waterproofing** and **attaching** ceramic, natural stone and mosaic tiles, among others, in bathrooms, changing rooms, on pool surrounds, terraces, balconies, in hotels, etc.
- Its extreme flexibility allows it to be used in places subject to vibrations, such as supermarkets, factories, airports, high-traffic areas, schools and hospitals.
- Because of its TRIPLE function and its qualities of waterproofing-adhesion-flexibility, it is ideal for substrates made of plaster, gypsum, plasterboard, mortar, concrete, precast concrete panels, fibre cement,... underfloor heating systems,... overtiling,... mortar substrates, etc.

TECHNICAL SPECIFICATIONS

TRIPLE F GEL is a NEW CONCEPT in building. Its technical properties set it apart as the simplest and most complete solution for waterproofing, attaching ceramic tiles and grouting.

Other **TRIPLE F GEL** features:

- -**GEL** texture; it is cream-like, smooth and easy-to-apply product
- -the white colour is a bright white colour
- -adjustable amount of water for mixing depending on the desired application
- -high thixotropy; it will not come unstuck
- -**extended open time**
- -longer time for tile adjustment
- -maximum adhesion to difficult substrates

DIRECTIONS FOR USE

- **Substrate preparation:**
  All substrates must be strong, solid; free of dust, paint, wax, oils and grease; and they must not be subject to hydraulic shrinkage.
  Plaster, plasterboard or derivative substrates must have a moisture content less than 0.5% and must be free of dust and signs of efflorescence.
- **Preparing the mixture:**
  mix each 25-kg bag with 7.5 litres of clean water until smooth; use an electric mixer on a low rpm setting to prevent lump formation.
- **Applying the mixture:**
  As a waterproofing agent: preferably use a flat metal trowel, short-pile roller or a paintbrush. Apply a first uniform coat; leave to dry for 4 hours (at 23°C and 50%RH); apply a second coat perpendicular to the first and leave to dry for 4-24 hours, depending on the ambient temperature.

As an adhesive cement: preferably use a square-notched trowel, with the notch size proportionate to the size of the tile. Attach the tile by pressing sufficiently in order to ensure 80% minimum contact with the adhesive. For outdoor applications, use the double-bonding method. For attaching tiles larger than 30x30cm, or weighing more than 40 kg/m^2, also use a corresponding metal fastener. Ensure that no surface layer is formed by checking with your fingertips. In case one forms, trowel again (never remoisten with water). Use a rubber mallet to set the tiles into the adhesive. Protect recently tiled floors or paving from excessive heat, frost, rain, etc. for at least 24 hours after laying.

As grout: completely fill all the joints using a **FIX-ESPÁTULA** trowel, applying sufficient pressure to fill any spaces and gradually remove the excess grout with the same trowel. Wait 30-45 minutes after applying the grout to clean the surface of the joints and tiles using a lightly moistened sponge.

◆ **Sealing movement joints:**
For movement joints, apply **SELLALASTIC** or **SILICONA NEUTRA**.

TRIPLE F GEL: three-in-one product.

APPLICATION DOSAGE:

For waterproofing:	approx. 2.5 kg/m^2
For attaching ceramic tiles:	approx. 3.5-5 kg/m^2
For attaching glass mosaic tiles:	approx. 2.0 kg/m^2
For grouting glass mosaic tiles:	approx. 1.5 kg/m^2

TECHNICAL INFORMATION

PRODUCT DENSITY IN POWDER FORM: 1.07 g/cm^3
APPLICATION TEMPERATURE: +5°C - +35°C
STORAGE: 12 months in protected and covered place.
FORMAT: White and Grey colour 25-kg bags

TECHNICAL SPECIFICATIONS

DIRECTIVES: EN-14.891; polymer-modified cement mortar (CMP); waterproof cement membrane formulated with polymers. Resistant to freezing/thawing cycles and to contact with chlorinated water and limewater.

- Proportion of mix: 8.5 litres / 25-kg bag
- Initial adhesion: $\geq$ 0.5 N/mm^2
- Adhesion after immersion in water: $\geq$ 0.5 N/mm^2
- Adhesion after ageing with heat: $\geq$ 0.5 N/mm^2
- Waterproofing: no penetration (1,5bar constant pressure/7 days)
- Resistance to cracking: $\geq$ 0.75 mm
- Adhesion after freezing/thawing cycles: $\geq$ 0.5 N/mm^2
- Adhesion after immersion in chlorinated water: $\geq$ 0.5 N/mm^2

DIRECTIVES: EN-1504-2(C) - MC-IR waterproof membrane for the surface protection of concrete

- Capillary absorption and waterproofing: $\mu < 0.1$ kg/m^2·h$^{0.5}$
- Water vapour permeability: Class I
- Adhesion strength pull-off test: Flexible system
- No traffic loads: >0.8 N/mm^2
- Release of dangerous substances: Complies with 5.3

DIRECTIVES: EN-12004 - C2 TE S1; improved normal setting deformable adhesive cement with extended open time and reduced slip. High flexibility.

- Proportion of mix: 6.6-7.1 litres / 25-kg bag
- Open time, adjusting time and pot life: **30 min**; 40 min; 1 hour
- Slip and max. layer thickness: < 0.5 mm; < 10 mm
- Grout after 24 hours and set after: 48 hours
- AInitial adhesion: $\geq$ 1.0 N/mm^2
- Adhesion after immersion in water: $\geq$ 1.0 N/mm^2
- Adhesion after ageing with heat: $\geq$ 1.0 N/mm^2
- Adhesion after freezing/thawing cycles: $\geq$ 1.0 N/mm^2
- Open time: adhesion (30 min): $\geq$ 0.5 N/mm^2
- Transverse deformation: $\geq$ 2.5 mm

DIRECTIVES: EN-13.888 - CG2 W A; enhanced cement-based grouting (fulfilling additional properties): reduced water absorption property and highly abrasion-resistant.

- Proportion of mix: 6.6-7.1 litres / 25-kg bag
- Resistance to acids/alkali: poor
- Resistance to abrasion: $\leq$ 1000 mm^3
- Bending strength-dry storage: $\geq$ 2.5 N/mm^2
- Bending strength-freezing/thawing cycles: $\geq$ 2.5 N/mm^2
- Compressive strength-dry storage: $\geq$ 15 N/mm^2
- Compressive strength-freezing/thawing cycles: $\geq$ 15 N/mm^2
- Shrinkage: $\leq$ 3 mm/m
- Water absorption after 30 min: $\leq$ 2 g
- Water absorption after 240 min: $\leq$ 5 g

EPOXICOLOR POOL®

Special anti-acid epoxy paint for protecting the waterproofing of overflow gutters and pool regulating basins.

WARNING:

- **EPOXICOLOR POOL** is easy to use, but requires professional application.
- **EPOXICOLOR POOL** is not a finish for the inside of the pool. It is an exclusive product for the gutters and the regulating basin of swimming pools.
- Do not apply without previous preparation of the surface.
- Do not dilute any product: they are all pre-dosed.
- Do not use in applications not described on this data sheet.
- Do not apply to gutters and regulating basins without having previously waterproofed them.

FIELDS OF APPLICATION

- **EPOXICOLOR POOL** is a special acid-resistant paint for the gutters and regulating basins of swimming pools.
- A paint with excellent resistance to traffic and with high levels of chemical, mechanical and abrasion resistance; it is highly resistant even at low temperatures and when subject to wear.
- **EPOXICOLOR POOL** does not come unstuck and sag: ideal for application on horizontal and vertical surfaces.

TECHNICAL FEATURES

EPOXICOLOR POOL: ready-to-use epoxy based paint: mix the pre-dosed components and apply. No other extra components should be added.

Its technical characteristics are unique:

- Very high level of chemical resistance.
- Resistant to salt water.
- Highly resistant to abrasion.
- Total anti-sagging.
- Total adhesion to the surface without shrinking.
- Totally waterproof.
- Excellent workability by brush or roller.

Paintwork certified and approved in accordance with EN13.8132 and EN1504-2.

Paint resistant to alkalis, salt water, acids and micro-organisms.

HOW TO USE

- **Preparation of the surface:**
  The secret of a successful acid-resistant coating lies in the correct and strict preparation of the surface. To this end, the following points **must be complied** with:

a.- on **new** concrete, we must wait for the concrete to set completely (minimum 30 days). Moisture must be <4% by weight. On old concrete, we shall also check that the moisture content is <4% by weight. (use a hygrometer).

b.- on **S9** blocks of **ROSA GRES**, waiting times for drying are not necessary: apply **TECNOCOL GEL** type adhesive cement to the blocks, and after 24 hours they can be waterproofed and chemically protected.

c.- the gutters and regulating basins, which will have previously been waterproofed with two coats of **HIDROFIX** or **IMPERTOT** following their respective application instructions.

d.- the minimum application temperature is +10°C, understanding that the temperature of the surface will be at least +3°C above the dew point.

◆ **Preparation of the components:**
The ideal application temperature is +20ºC. When the temperature is very low and the liquid is cold and viscous, immerse the bottle in hot (not boiling) water until it becomes fluid.

◆ **Preparation of the mix:**

1) A set consists of:
   1 small bottle of liquid
   1 bucket of white paste
2) Empty the contents of the **bottle** completely into the bucket.
3) Mix with a spiral mixer coupled to an electric drill at high rpm.
4) Do not add anything else: The colour and special anti-sagging thickener has already been incorporated into **EPOXICOLOR POOL**.

◆ **Steps to follow for the application of the waterproofing+anti-acid paint system:**

a) previously apply two coats of **HIDROFIX** or **IMPERTOT** following their respective application instructions.
b) allow the waterproofing to dry for at least 24 hours (at +20°C).
c) apply a first coat of **EPOXICOLOR POOL** using a long-nap roller or brush; apply a minimum thickness of 0.4-0.5mm; leave to dry for a minimum of **12 hours** (at +20°C and 50% RH); when **EPOXICOLOR POOL** is dry, apply a second coat of **EPOXICOLOR POOL** also with a minimum thickness of 0.4-0.5 mm and leave to dry.

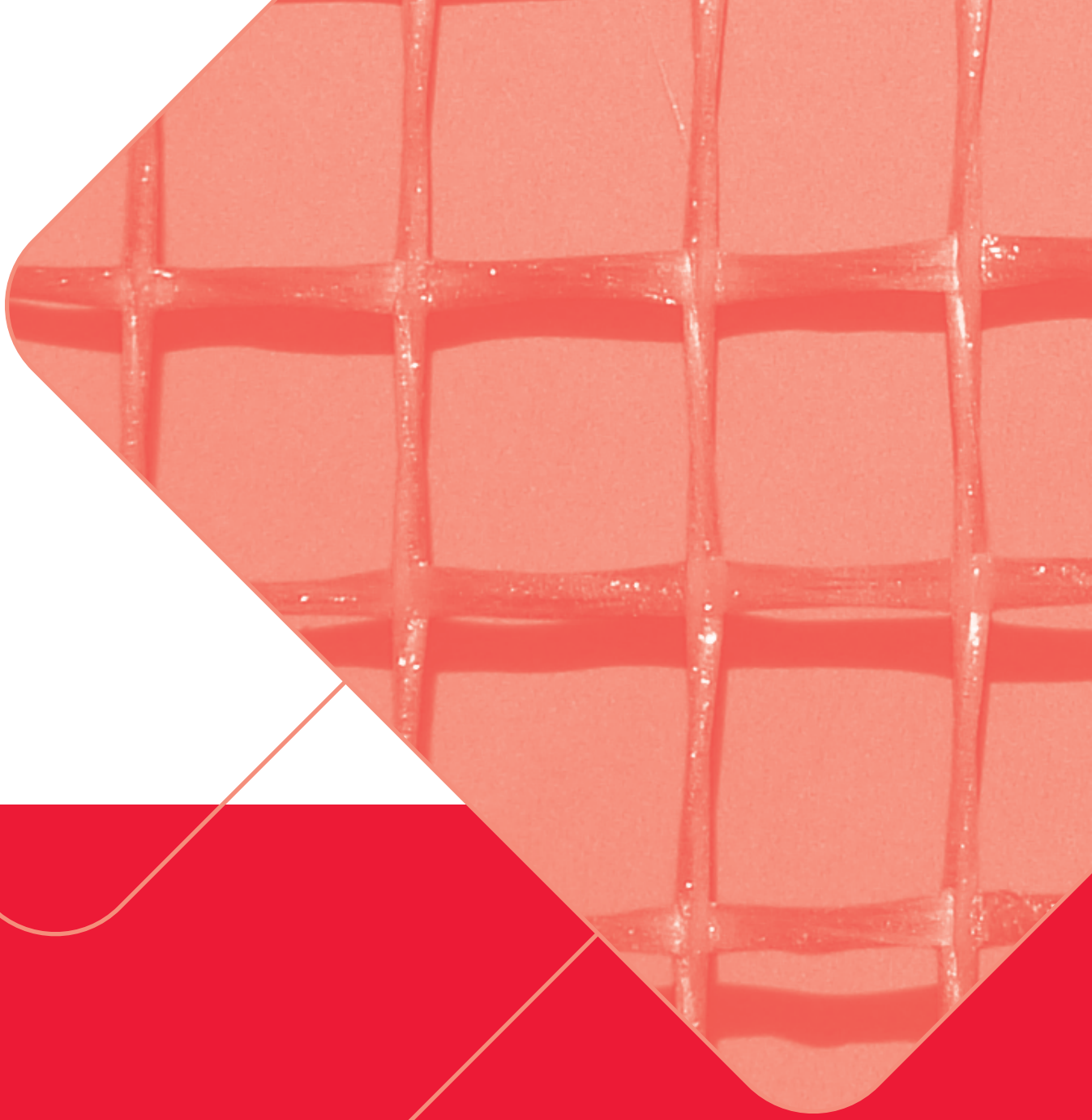
◆ **Leaktightness tests:**
In general, 48 hours (at +20°C and 50% RH) after the application of the 2nd coat of **EPOXICOLOR POOL**, it is possible to carry out the corresponding leaktightness test.

CONSUMPTION:	
Overflowing gutter:	de 0.35 -0.70 kgs/ml of gutter
Balance tank:	de 0.3-0.4 kgs/m2

TECHNICAL DATA	**EPOXICOLOR POOL**
STANDARDS:	EN 13.813 & EN 1504-2
PRODUCT:	
• Type:	SR - B1,5 - AR0,3 - IR14 ; C - PR(5/5.1)
• Flammable:	No
• Toxicity:	Avoid contact with eyes and skin. Always use gloves during application. Protective goggles are also recommended. In case of contact with skin wash off with abundant soap and water. In the event of contact with the eyes, wash thoroughly with running water and consult a doctor.
• Solvent content:	0%
APPLICATION:	
• Support temperature:	from +10°C to +30°C and always 3°C above the dew point.
• Humidity of the support:	<4% parts weight measured with hygrometer and without ascending humidity
• Application temperature:	from +10°C to +30°C
• Maximum relative humidity:	80%
• Pot life:	30 minutes
• Waiting time between coats for the application of **EPOXICOLOR POOL**:	at +10°C min. 24 h, depending on the on-site ventilation and the relative humidity of the atmosphere, making it necessary to use a hygrometer to check that the humidity between the layers is always<4% before applying the following layer.
FINAL PERFORMANCE:	
• Waiting time before use:	at +10°C 72h pedestrian use - 6 days light use - 10 days intensive use at +20°C: 24h pedestrian use - 4 days light use - 7 days intensive use at + 30°C: 18h pedestrian use - 2 days light use - 5 days intensive use
• Slip resistance (EN 12633):	from Class I to Class III
• Thermal resistance with wet heat:	at +80°C for steam cleaning
• Chemical resistance:	to inorganic acids up to 20% (*) to inorganic bases to solutions of non-oxidizing inorganic salts with pH between 6-8
• Fire resistance (EN 13501-1):	F
• CE certification:	
• Type:	SR : self-levelling synthetic resin paste
• Abrasion resistance (EN -13892):	type AR 0.3 ; <3000mg H22/1000
• Adherence (EN-13892-8):	type B 1.5 ; >2,0 N/mm^2
• Shock resistance (EN -6272):	type IR 14 ; Class III
• Capillarity absorption & permeability to water:	w < 0,1 kg/m^2·h^{0,5}
STORAGE:	
Protected from heat and frost:	2 years
PRESENTATION:	
EPOXICOLOR POOL:	in 2.5 Kg. in white color

(*) = except hydrofluoric acid and oxidizing acids and their salts.

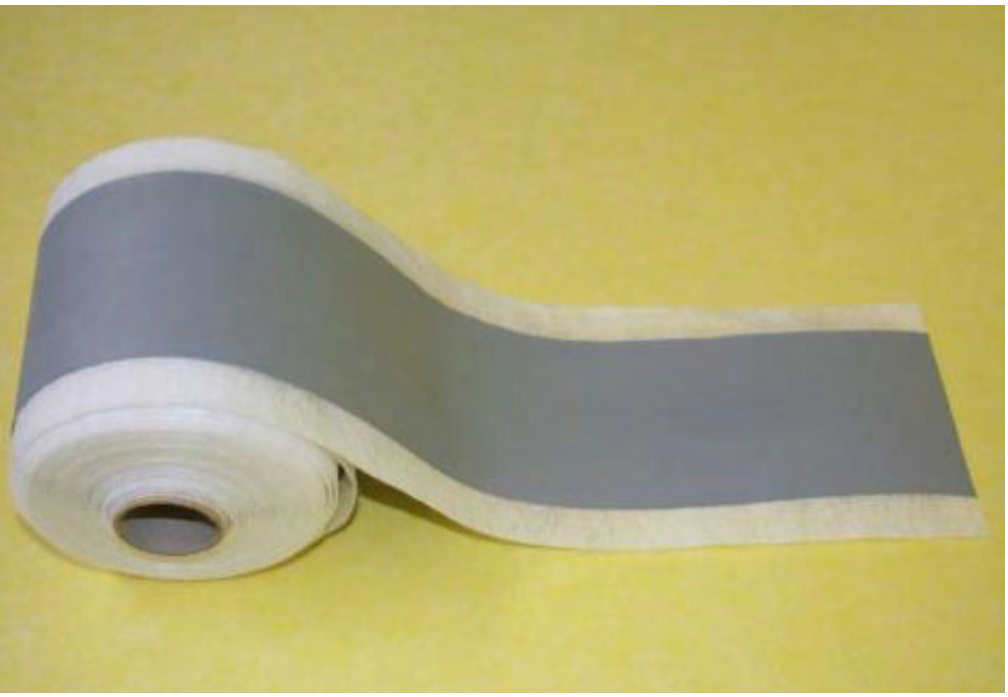
FIXCER



MESH and GEOTEXTILES

BANDA IMPERMEABLE 120/70

WATERPROOF elastic sealing tape to apply with HIDROELASTIC or similar products or with FIX-TERRATS FIBRA or similar.



WARNING

BANDA IMPERMEABLE 120/70 must not be used:

- In other applications without previously consulting the Technical Department.
- On dirty surfaces, with unconnected parts, with remains of non-stick coatings,...
- On surfaces that are not designed to withstand minimum stresses of 0.5 N/mm^2

FIELDS OF APPLICATION

- Ideal for sealing construction joints, fissures, **expansion joints** that are fully waterproof on industrial flooring, swimming pools, drinking water tanks, terraces, shopping malls...
- It is attached using impermeable paint or mortar, i.e. it does not require an epoxy adhesive to fit it.
- Ideal for sealing corners and angles where walls meet, or wall and bottom of swimming pools, in conjunction with **HIDROELASTIC**, **HIDROFIX**,... or on terraces with impermeable paint such as **FIX-TERRATS FIBRA**, **HIDROFACIL**,...
- Appropriate for **sealing cracks**, fissures and joints bearing structural movements that do not exceed those indicated in the attached table:

TECHNICAL SPECIFICATIONS

BANDA IMPERMEABLE 120/70 is an elastic, waterproof and steam-proof rubber tape, fitted with felt from side to side, making it easier to place using the waterproofing product. Its characteristics differentiate it owing to its:

- Extremely high elasticity.
- Chemical resistance to alkalis, acids, salt solutions, etc., weather resistance, etc.
- High resistance to UV rays.
- Easy to join overlaps with specific adhesives.

DIRECTIONS FOR USE

- **Surface preparation:**
  Correct, thorough and meticulous cleanliness of the surface is the best guarantee for long-lasting application. Remove any remains of flaking concrete, unconnected parts, small solids, chips, etc. Also remove any dust, paint, wax, stripper, etc.

- **Prior comments on joining strips of tape:**
  BANDA IMPERMEABLE 120/70 is easily joined with the adjoining strip using glue for PVC, **MASTIC MS** or **ELASTICER**.

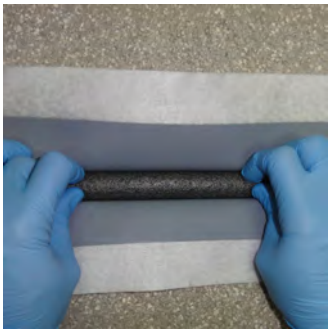
		Width of expansion joint	
		1-20 mm	1-35 mm
Maximum movement of expansion joint:	15 mm	**BANDA IMPERMEABLE**	**FIX-TAPE 170 mm**
	40 mm	**FIX-TAPE 170 mm**	**FIX-TAPE 170 mm**

- **Application of tape on EXPANSION JOINTS:**
  Place the tape over the expansion joint and secure it in position using **SELLALASTIC FOAM**.
  Apply a layer of mortar to both sides of the joint, or impermeable paint. Then press firmly on the felt against the mortar or paint using a hard roller or metal trowel. Apply another 1 mm layer immediately over the tape, observing the central part. For a neat finish we recommend applying masking tape on both sides of the expansion joint, leaving the correct width for the sealing tape.

- **Application of tape on CORNERS:**
  Apply a layer of mortar or impermeable paint on both sides of the corner. Then press firmly on the felt against the mortar or paint using a hard roller or metal trowel. Apply another 1 mm layer immediately over the tape.

CONSUMPTION:	
BANDA IMPERMEABLE 120/70	proportional to the linear metres to seal, plus any
impermeable mortar or paint	approx. 0.5-0.75 kg/ml for a final thickness of 2 mm

TECHNICAL SPECIFICATIONS	BANDA IMPERMEABLE 120/70
PRODUCT:	
• Type:	Impermeable elastomer
• Elastomeric mass:	46 g/ml
• Thickness:	0.79 mm
• Toxicity:	No
• Maximum permitted pressure:	1.1 bar
• Absorption power at 25 % of lateral elasticity :	0.57 N/mm (EN 527-3)
• Absorption power at 50 % of longitudinal elasticity:	0.66 N/mm (EN 527-3)
• Breakage point (lateral; longitudinal):	>503 % ; >31 % (EN 527-3)
• Breakage load (lateral; longitudinal):	35 N/15 mm; 153 N/15 mm (EN 527-3)
• Impermeability:	100 %
• UV Resistance:	>500 hours (EN ISO4892-2)
APPLICATION:	
• Application temperature:	+15ºC to +35ºC dictated by the adhesive
• Usable after:	24 hours
CHEMICAL RESISTANCE:	
•resistant to:	diluted mild solvents, acids and alkalis
• noT resistant to:	petrol, mineral oils and strong solvents: acetone, hydrocarbons, etc.
STORAGE:	
•In covered, dry, well-ventilated places:	does not expire
PRESENTATION:	
Supplied in:	Rolls 120 mm wide and 10 m long, in a light grey colour.



Position the sealing tape in the centre of the joint pushing the tape inside the gap which will then be filled with **SELLALASTIC FOAM**.

BANDA IMPERMEABLE 120/70 will stick to the surface using cement glue, waterproofing or impermeable paint, as being used in each case.

FIX-BANDA

Self-adhesive waterproof band for the protection of joints and formation of corners exposed to cracking risks.

ATTENTION

FIX-BANDA should not be uses:

- Without previous adhesion tests in-situ on the support in question.
- In applications not described in this technical sheet without previously consulting the Technical Department.
- As the only waterproofing solution: **FIX-BANDA** itself does not replace waterproof paint or mortar. It complements them.
- In plaster or plasterboard walls without previous primer by **HIDROPRIMER**.
- Applying it without pressing properly.

FIELDS OF APPLICATION

- Pre-sealing in corners to reinforce the waterproofing in these critical points, indoors, outdoors, terraces, balconies, swimming pools,...
- Band to bridge expansion joints prior to the application of a waterproofing.

TECHNICAL CHARACTERISTICS

FIX-BANDA is composed of a visco-elastic layer of butyl rubber, coated with a nonwoven of polyester fibers, which allows the deformation of the band in the transverse direction while limiting the deformation in the longitudinal direction. It is compatible with most supports such as terraces, balconies, decks, swimming pools...

HOW TO USE

- **Support:**
  All the supports will always be resistant, solid, clean of dust, paint, wax, oil and grease, and will be perfectly set.
  Fragile or very porous surfaces, they must be previously treated with **PRIMFIX** or with **IMPRIMACION SELLADOR S10** and let them dry at least 1 hour.
- **Application of the strip:** remove the self-adhesive paper from only one side and stick it by pressing it firmly on the support. lo con fuerza sobre el soporte. Proceed the same with the other side of the band. Ensure that the band does not form air bubbles. Then we will paint it with **FIX-TERRATS** (roofs) or protect it with **HIDRO-ELASTIC** (terraces, balconies, ...)

TECHNICAL DATA

NON-WOVEN FABRIC:	
• Type of fiber:	Polyester
• Mass per ml:	1.4 g/cm^3
• Tensile strength:	long>100 N /50mm; trans> 100N/50mm
BUTYL RUBBER:	
• Type of butyl:	butyl-polyisobutylene
• Resistance to slippering of butyl:	< 5 mm. (ISO 7390)
• Maximum elongation:	long>70%; trans>70%
• Shear adhesion (90°):	>70N
BAND SET:	
• Temperature of application:	from +5°C to +40°C
• Opertating temperature:	from -30°C to +100°C
STORAGE:	
• In covered, dry and ventilated places:	36 months
DELIVERY:	
• It supplies:	Roll of 10 ml. x 80 mm.

FIX-BANDA DRAIN

Self-adhesive waterproof band to ensure the tightness in DRAINS, prior to the application of the waterproofing.

FIELDS OF APPLICATION

◆ Self-adhesive and waterproof sheet measuring 40x40cm. composed of an elastic butyl and a non-woven fabric. Ideal to ensure the tightness in the DRAINS prior to the application of **FIX-TERRATS FIBRA, HIDROFACIL, HIDROELASTIC, IMPERTOT, HIDROFIX,...**

TECHNICAL CHARACTERISTICS

FIX-BANDA DRAIN is composed of a visco-elastic layer of butyl rubber, coated with a nonwoven of polyester fibers, which allows the deformation of the sheet in both directions. It is compatible with most supports (except asphalt) such as aluminum, glass, concrete, mortar,... and is applicable on terraces, balconies, decks, swimming pool beaches...

TECHNICAL DATA

NON-WOVEN FABRIC:	
• Type of fiber:	Polyester
• Mass per m2:	1360 g/m2
• Breaking strength:	45±10 N
BUTYL RUBBER:	
• Type of butyl:	butyl-polyisobutylene
• Loss of mass:	<1%
• Resistance to slippering of butyl at 5°C:	< 3 mm. (ISO 7390)
• Resistance to slippering of butyl at 70°C:	< 3 mm. (ISO 7390)
• Maximum elongation:	>15%
BAND SET:	
• Temperature of application:	from +5°C to +40°C
• Operating temperature:	from -30°C to +100°C
STORAGE:	
• In covered, dry and ventilated places:	36 months
DELIVERY:	
• It supplies:	Sheets of 40cm. x 40cm.

HOW TO USE

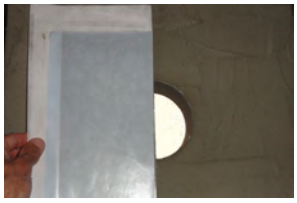
◆ **Supports:**

All the supports will always be resistant, solid, clean of dust, dry, ...

If the surface is very porous, very absorbent, disintegrates or is wet, apply a primer previously with **PRIMFIX** or with **IMPRIMACION SELLADOR S10** and let it dry 1 hour.
Then follow the following application instructions:

The support must be solid, clean and dry

Place the sheet in the center of the sump to be sealed.



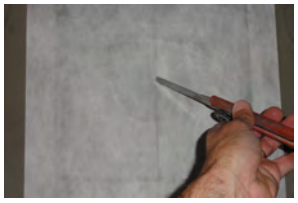
Following the pre-cut.

Remove the protective paper from only one of the two parts.

Glue the sheet and press hard to get a total grip.

Plegar la lámina al otro lado del pre-corte.

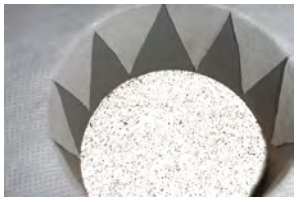
Fold the sheet on the other side of the pre-cut.



Take a blade and make V cuts from the center to the perimeter.

The cuts should start at the perimeter and should reach the center of the drain.

Cut the entire sheet completely discovering the sump.

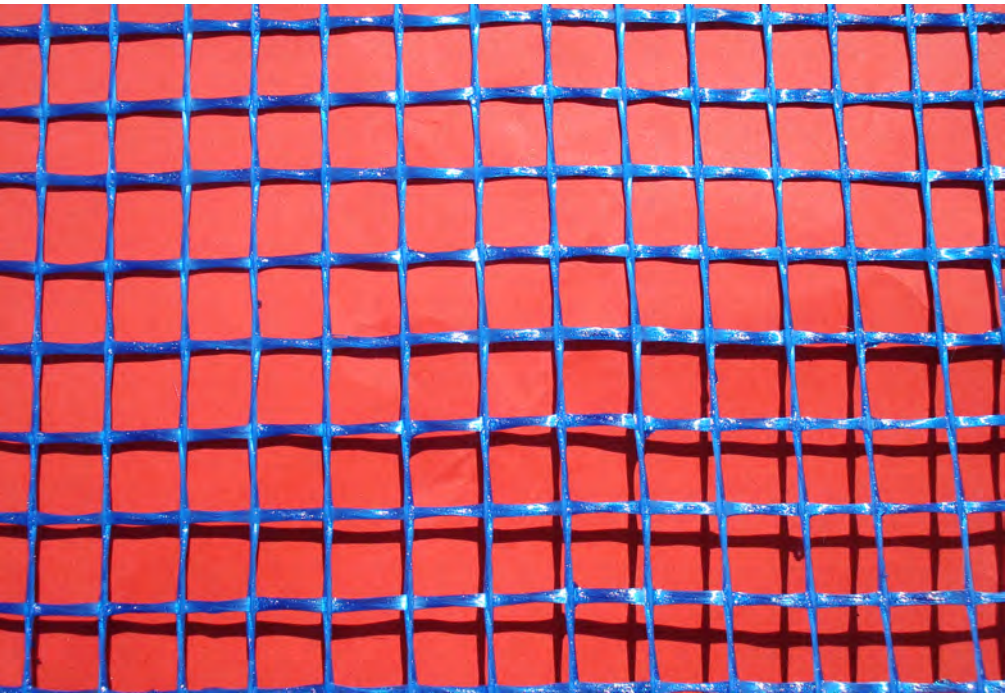


Paste the sheet neatly into the walls of the sump, and with it ....

... we will have the surface ready to receive the waterproofing.

MESH and GEOTEXTILES

Fibreglass mesh, Glass veil, Polypropylene Geotextiles, etc.: reinforcement necessary for certain applications.



WARNING

MESH and GEOTEXTILES should not be used:

- For uses other than those detailed in these technical specifications.
- In products which do not require them.
- Not following the instructions of the site architect with regards to the thickness or chemical resistance which is required for the project.

NET- MORTER-110 :

Alkaline-resistant fibreglass **mesh** 10x10mm., with the following grammage: 110 gr/m^2.

Ideal for:

1) **Counteracting** the tension produced during the drying out of plastering mortar: ideal for use in corners and when trying to avoid cracking.
2) **Obligatory** in **overlaying** ceramic in swimming pools with **FIXMAX S2**.
3) **Obligatory** in **exterior thermal insulation systems.**

NET-HIDRO-80 :

Alkaline-resistant fibreglass **mesh** 5x5mm., with the following grammage: 80 g/m^2.

Ideal for:

1) **Counteracting** the tension produced during the drying out of **plaster** or **waterproof mortars** such as **HIDROFIX**.
2) **Ideal** for use in corners and joints.
3) **Ideal** for achieving constant thickness and exact application of paint.

NET-ELASTIC-65 :

It is a **mesh**, 100% polypropylene, woven, with alkaline protection, with a minimum thickness of 0.33mm, with a grammage of 65 gr/m^2, resistant from -30°C to +90°C and **ULTRA-ELASTIC**, ideal for:

1) Strengthen the tensile strength of ELASTIC waterproof mortars such as **HIDROELASTIC**.
2) **Ideal** for bridging expansion joints.
3) **Ideal** for achieve a continuous thickness and exact cement consumption.

VELO-TERRATS-50:

A **fine mesh** of 50 g/m^2 pressed fibreglass for reinforcing the adhesion in the application of **paint**.

Ideal for:

1) Creating **a waterproof surface** when using **FIX-TERRATS FIBRA** in terrace roofs or with a slight slope.
2) **Ideal** for achieving constant thickness and exact application of paint.
3) **Ideal** for being **repainted** time and time again.

GEOTEXTILES: PP-120, PP-150 and PP-200:

Geotextiles made of 100% polypropylene, punched and heat-set with **MAXIMUM resistance to alkalines** when in contact with mortar or concrete. Ideal for:

1) **Cement:** as a layer to separate **HIDROELASTIC** and the ground.
2) **Inverted roofs:** as a separating layer between **HIDROELASTIC** and gravel in order to avoid puncturing
3) **Embankments, gutters, slopes, PVC pond liners, concrete slabs, etc.**

DRAINAGE+GEOTEXTIL 620:

A 500 gr/m^2 polyethylene **sheet** which lets through water with a **geotextile** layer of 120 gr/m^2 with **MAXIMUM resistance to alcalines**. Ideal for:

1) **Cements:** as a separating layer between **HIDROELASTIC** and the ground; resistant to plant roots; lets through the right amount of water. A cavity forms between the geotextile and the sheet which is very resistant to compression yet lets air, water vapour and drainage water circulate freely.
2) **Tunnels, irrigation channels, containing walls, etc.**

FIBREGLASS MESH AND VEIL SHEETS (directives: ETAG 004)

	NET-MORTER 110	NET-HIDRO 80	VELO-TERRATS 50	NET-ELASTIC 65
Warp	16 threads/dm	40 threads/dm	---	---
Weave	8 threads/dm	20 threads/dm	---	---
Resist.traction length	1600 N / 5 cm	1200 N / 5 cm	210 N / 5 cm	250 N / 5 cm
Resist. traction side	1300 N / 5 cm	1050 N / 5 cm	210 N / 5 cm	180 N / 5 cm
Color	Blue	White	White	White
Elongation %	2-4	4-5	---	38%(L); 105%(T)
	(*)	(*)	(*)	(**)

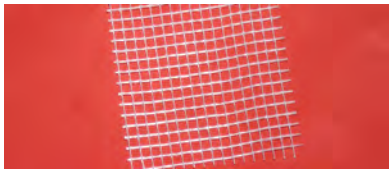
GEOTEXTILES (directives: EN 13252)

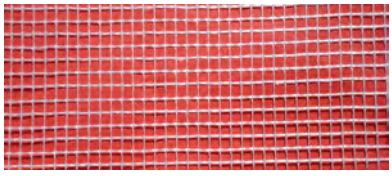
			GEOTEXTIL PP-120	GEOTEXTIL PP-150	GEOTEXTIL PP-200
Resistance to traction	EN 10319	KN/m	4.9(MD); 6.8 (CD)	7.6(MD); 7.5 (CD)	12.9(MD);13.1(CD)
Tensile test	EN 10319	%	80(MD); 90 (CD)	58(MD); 86 (CD)	85(MD); 95 (CD)
R. static puncture	EN 12236	N	0.9	1.4	1.9
R. dynamic perforation (cone drop)	EN 918	mm.	31	30	20
Pore opening	EN 12956	μm	70	67	60
Permeability water	EN 11058	l/m^2/s	11	10	41

DRAINAGE+GEOTEXTIL

		DRAINAGE
Tensile test EN 10319	%	>45
Thickness	mm.	0.85

		DRENANTE+GEOTEXTIL 620
Permeability water	l/m·s	1.65
Resistance traction lengthways	--	500 N / 5 cm
Resistance traction sideways	--	500 N / 5 cm
Volume air	l/m^2	5.7
Thickness	mm.	8.85
Resistance to compression:	Tm/m^2	20





FIXCER

TREATMENTS of SURFACES

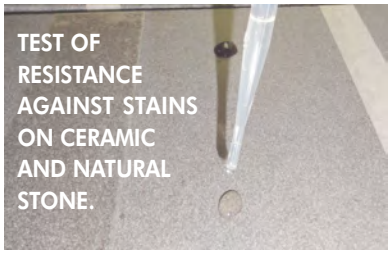
FIX-OIL

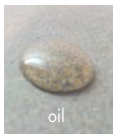
Colourless treatment with an oil and water repellency effect for ceramic, stoneware, marble, granite...

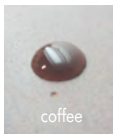
WARNING

FIX-OIL should not be used:

- At temperatures below +5 °C.
- For natural porcelain stoneware
- Modifying the formula.
- In cisterns or areas where water is stored.







FIELDS OF APPLICATION

- Clay, un-glazed ceramic tiles, stoneware, natural stones, marble, granite, manual terracotta, mechanical ceramic tiles, cotto...
- Repels grease, water and dirt stains... ideal for barbecues, kitchens, terraces, dining rooms...
- Can be used INDOORS and OUTDOORS.

TECHNICAL CHARACTERISTICS

FIX-OIL is a colourless mixture of polymers with an aqueous base that waterproof and provides grease repellent properties to conveniently treated surfaces. The water and grease repellent effects reduce superficial absorption enabling the cleansing of stains.
FIX-OIL does not modify the texture or the colour of the original piece.

STORAGE

In the original packaging, well closed and stored in covered and well-ventilated areas: 24 months. Do not expose to cold temperature.

CONSUMPTION:

According to the absorption: 0,15-0,18 lt./m^2

PACKAGING:

FIX-OIL is available in: 1 lt. and 5 lt.

INDOOR AND OUTDOOR CLAY CERAMIC:

						1ª layer		2ª layer (recommended)
Clay	clay glued with mortar and after 40-50 days clay glued with cement and after 15-20days	Wash with **GRESNET** 25l/100sqm diluted in 1:5 water	rinse with water	**winter:** after 8-10 days **summer:** after 5-6 days	**FIX-OIL** 10-12lt./100sqm	after 24 h.	**FIX-OIL** 5-6lt./100sqm

UN-GLAZED NATURAL STONEWARE FOR INDOOR AN OUTDOOR USE:

					1ª layer		2ª layer (recommended)
Un-glazed natural stoneware	After 7 days	Wash with **GRESNET** 25l/100sqm dilute 1:5 water	rinse with water	After 2 days	**FIX-OIL** 10-12lt./100sqm	after 24 h.	**FIX-OIL** 5-6lt./100sqm

NATURAL STONES, GRANITE, MARBLE INDOOR AND OUTDOOR:

					1ª layer		2ª layer (recommended)
Marble, granite or stone	wash with	**FIX-SABO**	rinse with water	let dry	**FIX-OIL** polished marble:7-8lt/100sqm stone: 9-10lt./100sqm	after 24 h.	**FIX-OIL** polished marble:3-4lt/100sqm stone: 5lt./100sqm

(does not alter the colour nor texture of the treated piece / apply with soft roller)

FIX-WALL

Colourless water repellency treatment. For vertical surfaces: brick, concrete, sandstone,...

WARNING

FIX-WALL should not be used:

- At temperatures below +5°C.
- On porcelain or vitreous ceramic tiles
- Modifying the formula.
- Inside water deposits.
- On internal basement walls (apply **HIDROFIX**).

CONSUMPTION:

Apply until saturation two layers of **FIX-WALL**: approx.: 0.8 lt./m^2

FIELDS OF APPLICATION

1) Walls or vertical surfaces, exposed/ face brick buildings, concrete, sandstone, limestone, marble, granite, natural stones, etc.
2) Since it is waterproof, it avoids the later appearance of efflorescent stains.
3) Can be used **INDOORS** and **OUTDOORS**.

TECHNICAL CHARACTERISTICS

FIX-WALL is a colourless mixture of polymers with an aqueous base that waterproofs conveniently treated surfaces. The water-repellent effect is greater in relation to the depth of the penetration of the product; 2 or 3 layers are recommended.

FIX-WALL does not significantly reduce the permeability to water vapour and does not modify the surface's original texture or colour.

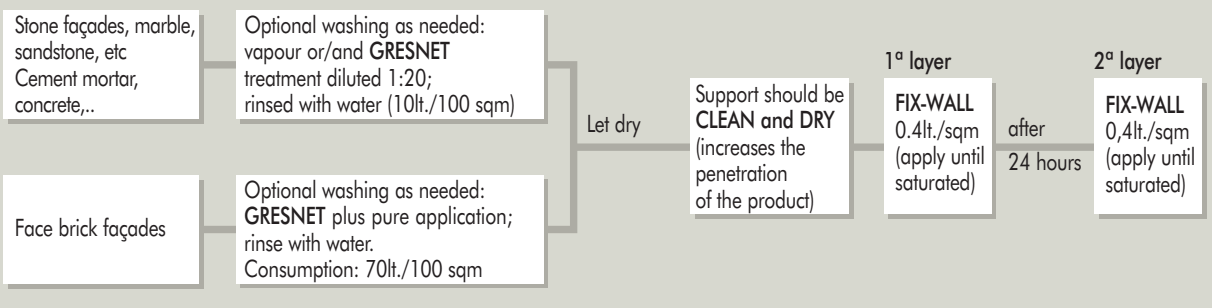
STORAGE

In the original packaging, well closed and stored in covered and well-ventilated areas: 24 months.
Do not expose to cold temperatures.

PACKAGING

FIX-WALL is available in the following formats: 1 lt. and 5 lt.

TREATMENT:



(apply the products with brush, sponge or airless)

SURFACE PROTECT

COLOURLESS and ANTI-STAINS treatment for concrete, ciment, clay, stoneware, marble, granite... and for imprinted concrete.

WARNING

SURFACE PROTECT should not be used:

- At temperatures below +0°C.
- For natural porcelain stoneware
- Modifying the formula.
- In cisterns or areas where water is stored.

CONSUMPTION:

According to the absorption of the surface: approx.: **0.10-0.20 lt./m²**

FIELDS OF APPLICATION

- Mortar, concrete, imprinted concrete, clay, un-glazed ceramic tiles, stoneware, natural stones, marble, granite, manual terracotta, mechanical ceramic tiles, cotto...indoors and outdoors.
- Repels grease, water, coffee, mayonnaise, ketchup, butter, vinegar, mustard, wine, bleach... ideal for barbecues, kitchens, terraces, dining rooms...

TECHNICAL CHARACTERISTICS

SURFACE PROTECT is a colourless mixture of polymers with an solvent base that water-proof and provides grease repellent properties to conveniently treated surfaces. The water and grease repellent effects reduce superficial absorption enabling the cleansing of stains. **SURFACE PROTECT** does not modify the texture of the original piece and gives it a satin finish.

STORAGE

In the original packaging, well closed and stored in covered and well-ventilated areas: 36 months.

PACKAGING

SURFACE PROTECT is available in the following formats: 2 kgs.

INDOOR AND OUTDOOR CLAY CERAMIC:

						1ª layer		2ª layer
Clay	clay glued with mortar and after 40-50 days clay glued with cement and after 15-20days	Wash with **GRESNET** 25l/100sqm diluted in 1:5 water	rinse with water	**winter:** after 8-10 days **summer:** after 5-6 days	**SURFACE PROTECT** 10-12lt./100sqm	after 24 h.	**SURFACE PROTECT** 5-6lt./100sqm

UN-GLAZED NATURAL STONEWARE FOR INDOOR AN OUTDOOR USE:

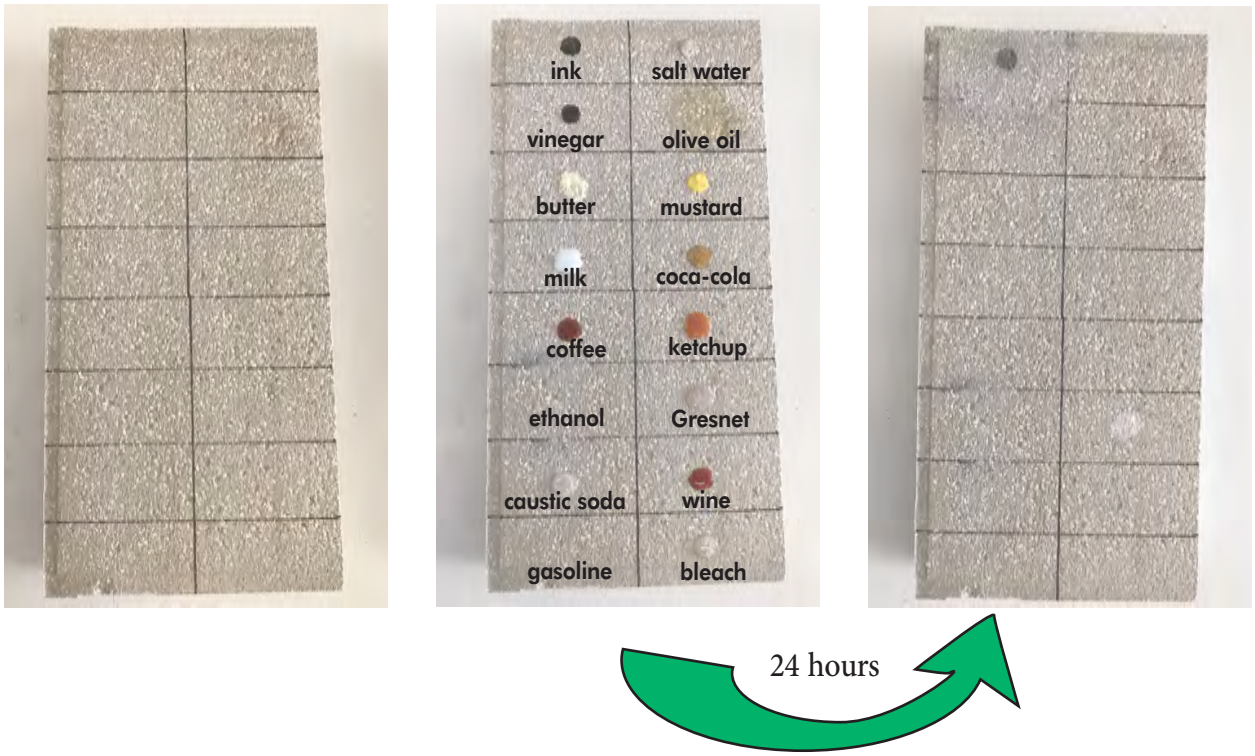
					1ª layer		2ª layer
Un-glazed natural stoneware	After 7 days	Wash with **GRESNET** 25l/100sqm dilute 1:5 water	rinse with water	After 2 days	**SURFACE PROTECT** 10-12lt./100sqm	after 24 h.	**SURFACE PROTECT** 5-6lt./100sqm

NATURAL STONES, GRANITE, MARBLE INDOOR AND OUTDOOR:

					1ª layer		2ª layer
Marble, granite or stone	wash with	**FIX-SABO**	rinse with water	let dry	**SURFACE PROTECT** polished marble: 7-8lt./100sqm stone: 9-10lt./100sqm	after 24 h.	**SURFACE PROTECT** polished marble: 3-4lt./100sqm stone: 5lt./100sqm

(does not alter the colour nor texture of the treated piece / apply with soft roller)

TESTS OF STAIN RESISTANCE IN ABSORBENT CEMENT SURFACES:



...and ALSO IDEAL FOR CLAY SLABS:

FIXCER

PAVEMENTS and INDUSTRIAL PAINTS

EPOXICOLOR® MULTI-SYSTEM

High chemical resistance epoxy flooring for industrial buildings, offices, shops, car parks, etc. Available in a multitude of finishes.

WARNING:

- The **EPOXICOLOR MULTI-SYSTEM** is easy to use, but must be applied by skilled professionals.
- The **EPOXICOLOR MULTI-SYSTEM** cover different types of flooring: choose the most appropriate according to the specific aesthetic and/or physical resistance requirements.
- Do not apply without prior adequate preparation of the support.
- Do not dilute any of the products: they are ready-dosed.
- For use only with the supports specified in this data sheet.
- Not for exterior use: UV rays do not alter its properties, but they do cause bleaching.

FIELDS OF APPLICATION

- **EPOXICOLOR MULTI-SYSTEM** provides different proposals for technical and aesthetic floorings covering a very broad spectrum of applications.
- All offer excellent resistance to **transit**, **chemicals**, **mechanical** wear and **abrasion**, as well as to low temperatures and **wear** in general.
- They are ideal for **workshops, warehouses, stock rooms, public premises, chemical industry installations, food industry installations, mechanical workshops, garages, public and private car parks, coldrooms, clothing shops, hotel foyers, stadium foyers, arcades, nurseries, etc.**
- **EPOXICOLOR MULTI-SYSTEM** offers a wide range of smooth, non-slip finishes apt for barefoot use or for use with shoes.
- When applied as paint, **EPOXICOLOR** provides resistance to chlorinated water in overflow gutters and regulating tanks.

HOW TO USE

- **Preparing the support surface:**
  The secret of the success of a continuous resin flooring lies in the correct, rigorous **prior preparation of the support**. To do so, the following points **must be observed**:
  a.- fresh concrete: wait for it to harden completely (at least 30 days). Humidity must be <4% of weight. Old concrete: make sure that the humidity is <4% of weight. (use hygrometer).

  b.- the surface may be prepared chemically, mechanically or by using a combination of both techniques:
  Chemical preparation: clean the whole surface with a dilution of **GRESNET** and water (1 part **GRESNET** to 5 parts water). Spread, rub, collect and finally rinse the whole surface with abundant water. **Leave to dry completely.**
  Mechanical preparation: depending on its condition (painted, rough, peeling,...), the surface must be shot-peened, sanded or burred.

- **Environmental conditions:**
  The minimum application temperature is +10°C, considering that the ground temperature will be at least +3°C above dew point.
- **Full range of products providing different aesthetic and technical solutions for all EPOXICOLOR MULTI-SYSTEM systems:**
  EPOXICOL
  EPOXICOLOR
  PROMOTOR T
  CUARZOFILLER A
- **EPOXICOL:** chipped or damaged areas in concrete must be filled with thixotropic **epoxy mortar**, such as **EPOXICOL**, and mechanically sanded once dry.

- **EPOXICOLOR: epoxy** with a multitude of potential applications:
  a.- applied undiluted with a roller as an **epoxy paint**.
  b.- applied undiluted with a rubber squeegee as an **epoxy sealant** for non-slip flooring.
  c.- mixed with **CUARZOFILLER A** as a **self-levelling epoxy mortar** for application with a notched trowel and a spiked roller.

- **EPOXICOLOR PIGMENTO:** coloured paste which may be added to neutral epoxy **EPOXICOLOR**.

- **PROMOTOR T:** powder additive for mixing with **EPOXICOLOR** to thicken it.

- **CUARZOFILLER A:** a mixture of **special particles** for addition to **EPOXICOLOR** in order to obtain self-levelling mortars for application with notched trowels and spiked rollers.

CONSUMPTION:

Consult the consumption of the different products in the General Catalogue of industrial applications according to the adopted MULTI-SYSTEM solution.

TECHNICAL DATA	EPOXICOLOR MULTI-SYSTEM
STANDARDS:	EN 13.813 & EN 1504-2
PRODUCT:	
• Type:	SR - B1,5 - AR0,3 - IR14 ; C - PR(5/5.1)
• Flammable:	No
• Toxicity:	Avoid contact with eyes and skin. Always use gloves during application. Protective goggles are also recommended. In case of contact with skin wash off with abundant soap and water. In the event of contact with the eyes, wash thoroughly with running water and consult a doctor.
• Solvent content:	0%
APPLICATION:	
• Support temperature:	from +10°C to +30°C and always 3°C above the dew point.
• Humidity of the support:	<4% parts weight measured with hygrometer and without ascending humidity
• Application temperature:	from +10°C to +30°C
• Maximum relative humidity:	80%
• Pot life:	30 minutes
• Waiting time between coats for the application of **EPOXICOLOR**:	at +10°C min. 24 h, depending on the on-site ventilation and the relative humidity of the atmosphere, making it necessary to use a hygrometer to check that the humidity between the layers is always<4% before applying the following layer.
FINAL PERFORMANCE:	
• Waiting time before use:	at +10°C 72h pedestrian use - 6 days light use - 10 days intensive use at +20°C: 24h pedestrian use - 4 days light use - 7 days intensive use at + 30°C: 18h pedestrian use - 2 days light use - 5 days intensive use
• Slip resistance (EN 12633):	from Class I to Class III
• Thermal resistance with wet heat:	at +80°C for steam cleaning
• Chemical resistance:	to inorganic acids up to 20% (*) to inorganic bases to solutions of non-oxidizing inorganic salts with pH between 6-8
• Fire resistance (EN 13501-1):	F
• CE certification:	
• Type:	SR : self-levelling synthetic resin paste
• Abrasion resistance (EN -13892):	type AR 0.3 ; <3000mg H22/1000
• Adherence (EN-13892-8):	type B 1.5 ; >2,0 N/mm^2
• Shock resistance (EN -6272):	type IR 14 ; Class III
• Capillarity absorption & permeability to water:	w < 0,1 kg/m^2·h^{0,5}
STORAGE:	
Protected from heat and frost:	2 years
PRESENTATION:	
EPOXICOLOR:	in 18.54 Kg./9.27 Kg.
EPOXICOLOR PIGMENTO:	in 1.46 Kg./0.73 Kg.
PROMOTOR T:	in 0.1 and 0.2 Kg.
CUARZOFILLER A:	in 20 Kg.

(*) = except hydrofluoric acid and oxidizing acids and their salts.

FIXCER

CLEANERS and ACIDS

EPOXI CLEANER

Cleaner / Detergent to remove remains of DRY epoxy grout. Ideal for final cleaning to complete work after applying CERPOXI or PROFESSIONAL PX.

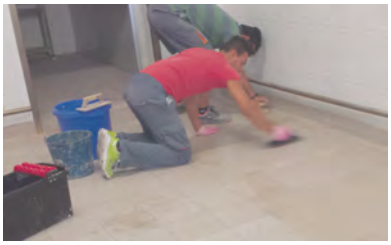
WARNING

EPOXI CLEANER should not be used:

- For other uses than those specified on this data sheet.
- Without taking the basic precautions required for chemical products: rubber gloves and safety glasses.

CONSUMPTION:

Depending on how dirty the surface is and number of applications.
Approx. 0.15 - 0.25 l./m2.



FIELDS OF APPLICATION

- **EPOXI CLEANER** can remove remains of DRY epoxy from any epoxy mortar used for grouting industrial tiles, non-slip tiles, rustic tiles, textured tiles,...
- **EPOXI CLEANER** is a biodegradable, non-aggressive detergent containing emollients and solvents with pH=7, which helps to **emulsify** epoxide residues with WATER and thus **completely** remove them.
- It is particularly suitable for eliminating dry remains of **CERPOXI** and/or **PROFESSIONAL PX**.
- It can be used on floor and wall tiles, INDOORS and OUTDOORS, in swimming pools, on stoneware, clay, porcelain, marble, granite, glass,...
- Also suitable for occasional cleaning of organic remains on industrial flooring.

DIRECTIONS FOR USE

- **EPOXI CLEANER** can be used to remove very heavy remains or diluted at a ratio of 1:5 with water for occasional cleaning:
  1 part **EPOXI CLEANER** +
  5 parts water
- Spread the product over the epoxide remains and allow it to work for at least 10-15 minutes. The longer it is in contact with the residue, the better it will emulsify and make waste removal easier.
- Help the chemical action with mechanical action, using Scotch-Brite type scouring pads or **FIX-ESTROPAJO-NEGRO**. Rinse well with plenty of clean water.
- Then remove the excess liquid with **FIX-ESPONJA**.
- Repeat the process as many times as necessary until the residues have been completely removed.

TECHNICAL SPECIFICATIONS

PRODUCT:

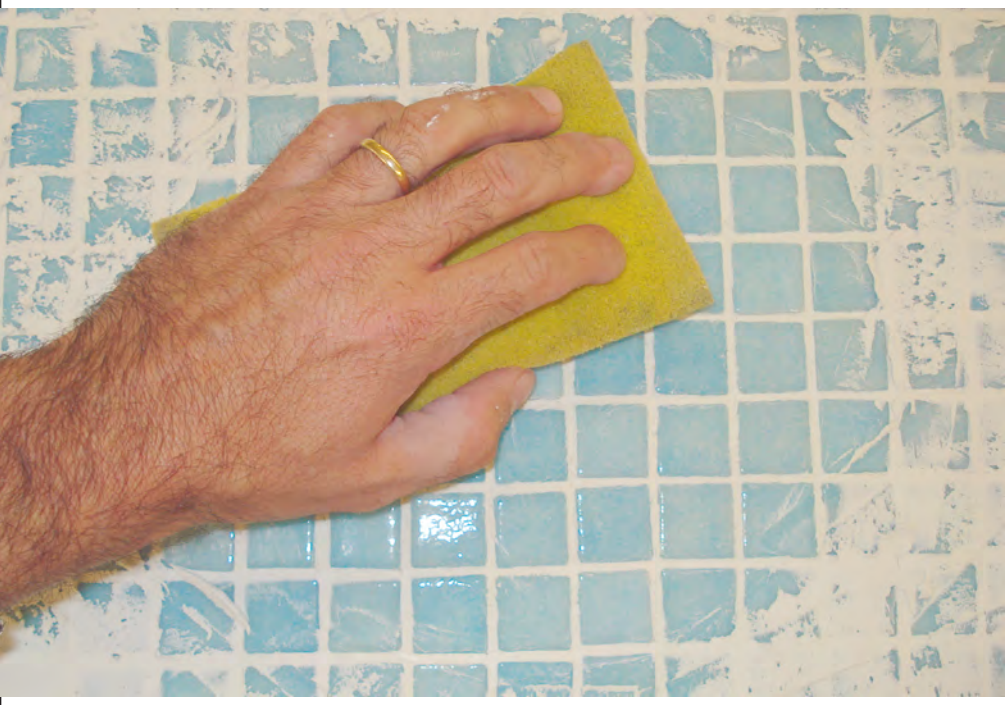
• Type:	concentrated cleaner / detergent.
• Density:	1,0 g/cm^3
• Inflammability / Toxicity:	Yes / irritant, avoid contact with skin and eyes; rinse well with water if there is contact.

• Precaution:
Do not swallow, use gloves and safety glasses; keep out of reach of children; in case of contact with eyes, rinse with water and seek medical help; store away from heat sources and sparks.

MIX PROPORTION:	from neat to diluted to 1:5 with water.
PRESENTATION:	1 l, 5 l and 25 l bottles / drums.

EPOXINET

This product helps to clean off residues of CERPOXI- or PROFESSIONAL PX-type grouts during application.



WARNING

EPOXINET must not be used:

- to eliminate DRY epoxy residues (please use **EPOXI CLEANER**).
- without taking the basic precautions required for handling chemical products. Use rubber gloves and protective eyewear.

AMOUNT TO USE:

approximately 0.05 l/m2, depending on how much excess grout is to be removed or on the number of applications, diluted in a 3:1 ratio with water.

Dilution of **EPOXINET** in a 3:1 ratio with water.

FIELDS OF APPLICATION

- **EPOXINET** is used to eliminate excess epoxy grout during its application while still wet.
- **EPOXINET** is a highly specialised product;

  it helps to **emulsify** epoxy residues with WATER, allowing them to be eliminated completely.
- It is especially useful when applying and cleaning **CERPOXI** and/or **PROFESSIONAL PX.**
- It can be used on both INDOOR and OUTDOOR floors and walls, as well as on swimming pools.
- It can be used to clean all the sponges, trowels, beaters, etc. used during the application of epoxy grout.

TECHNICAL CHARACTERISTICS

EPOXINET is a complex formula based on organic esters designed to emulsify epoxy and water.

HOW TO USE

- **EPOXINET** can be used either on its own or diluted in a 3:1 ratio with water:

  3 parts **EPOXINET** +
  1 part tap water
- For example, mix the following amounts in a bucket:

  5 litres of **EPOXINET** +
  a maximum of 1.5 litres of tap water. Stir gently for 30 seconds. Once made up, this mixture can be stored for later use.
- 10-15 minutes after applying **CERPOXI** or **PROFESSIONAL PX**, remove all excess grout using the **FIX-TROWEL** soaked in the made-up mixture.
- Then wipe up excess liquid with the **FIX-SPONGE**.
- Finally, rinse the entire surface with tap water.

TECHNICAL SPECIFICATIONS

PRODUCT:

•Type:	cleaner containing organic esters.
•Density:	1,02 g/cm^3
•Inflammable / Toxic:	Yes / Irritating substance, avoid contact with skin and eyes. In case of contact, wash with water.

•Precautions:

Do not ingest; use protective eyewear; keep out of reach of children; in case of contact with eyes, wash with water and consult a doctor; keep away from sources of sparks and heat.

MIXING RATIO:	dilute the product in a 3:1 ratio with water.
PACKAGING:	5 l drums.

FIX-GRAF STONE

Special stripping agent that eliminates graffiti from coarse surfaces that have not been treated with anti-graffiti. Elimination of traces of epoxy.

WARNING

- Do not employ to eliminate stains on painted surfaces that have to be maintained.
- Do not employ on shiny surfaces such as polished marble.
- Always use gloves during installation, protective goggles are also recommended.

CONSUMPTION:

Depends largely on the number of applications. Each application can consume **0.2 l/m2**. per layer.

FIELDS OF APPLICATION

- Elimination of traces of graffiti and/or paint applied to porous horizontal and vertical surfaces such as stoneware pavements, concrete walls, pargets, natural stone siding, granite, marble, ceramic, etc.
- Elimination of dry traces of **CERPOXI.** For resistant cases, apply as often as necessary.
- Applicable indoors and outdoors, both vertically and horizontally.

APPLICATION:

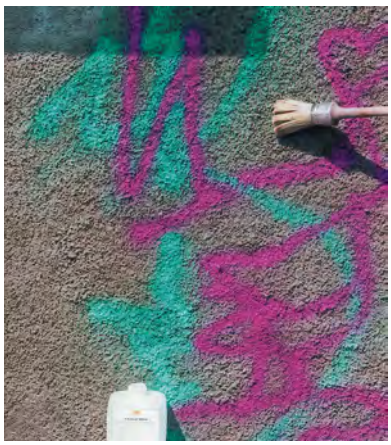
- Apply an even layer of un-diluted product with a brush. Wait 5 to 10 minutes until the stain has disappeared completely, or 12-24 hours with dry traces of epoxy. A second layer can be applied if deemed necessary.
- Subsequently clean thoroughly with high-pressure water or brush.

STORAGE

In covered and ventilated areas, maintaining the original containers well closed: 24 months.

PACKAGING

FIX-GRAF STONE is sold in 1 lt. and 25lt. formats.



Apply an even layer of un-diluted product with a brush.

After 5-10 minutes, clean thoroughly with high-pressure water.

A second layer can be applied if deemed necessary

FIX-SABO

Multi-use degreaser, detergent, bactericide and fungicide ideal for periodic cleaning. Removes oil and grease stains.

WARNING

- **FIX-SABO** must not be used to clean crockery.
- **FIX-SABO** is a detergent-disinfectant for facings and floorings.

CONSUMPTION:

Depending on the degree of dirtiness and the number of applications.
Approx.: 0.2 l/m^2.

Powerful industrial detergent and disinfectant.

FIELDS OF APPLICATION

- Applicable in interiors and exteriors, both vertical and horizontal.
- Powerful industrial disinfectant, ideal for periodic cleaning jobs.
- Cleans oil and grease stains on ceramic tiles or joints between pieces.
- Ideal for periodic maintenance of enamelled ceramic tiles, non-enamelled natural stoneware, clay, terracotta, glazed tiles, ceramic tiles etc.
- Having a slightly alkaline pH, it is ideal for cleaning natural stones.
- Cleans anti-mould oils.

TECHNICAL SPECIFICATIONS

FIX-SABO is a studied mixture of ionic and non-ionic tensio-active agents, phosphates, solvents and special additives for cleaning oils, greases etc. and is very easy to remove and later eliminate. **FIX-SABO** exhibits rapid, efficient bactericide activity against bacteria of types gram-positive, gram-negative, funguses and yeasts. It is efficient against: Staphylococcus aureus, Escherichia coli, Pseudomonas aeruginosa, Pseudomonas fluorescens, Klebsiella pneumoniae, Proteus vulgaris, Enterobacter aerogenes, Bacyllus micoides, Aspergillus niger and Candida albicans.

APPLICATION

Dilute the product as appropriate, depending on the type of application and the degree of rogue dirt to be removed. Pour the liquid onto the flooring to be cleaned and assist its action with Scotch Brite-type scourers or hard-bristle brushes. If the first application is not 100% effective, repeat the steps using a more concentrated dilution. In all cases, rinse thoroughly with clean water and allow to dry.

TECHNICAL SPECIFICATIONS

PRODUCT	
• Colour	Green
• Appearance	Fluid liquid
• Smell	Pleasantly scented
• Density	1.01 g/cm^3
• Solidifying point	<0°C
• pH	9.5
• Solubility in water	100%
• Flammability	No
• Toxicity	Avoid ingestion and contact with eyes and skin.
APPLICATION	
• Possible dilution:	pure or dissolved up to 1/10 in water
• Application temperature:	de +0° C to 40° C
STORAGE	
• In covered, dry, ventilated areas:	24 months
PRESENTATION	
• Supplied in:	750 ml; 5 l and 25 l canisters

GRESNET

Concentrated acid for removing excess cementitious smears.

WARNING

GRESNET must not be used:

- On marble, calcareous stones or their derivatives.
- Without employing the basic precautions an acid product requires: Use rubber gloves and protective glasses.

CONSUMPTION:

Depending on the degree of dirtiness and the number of applications.
approx.: 0.05 l/m^2.

Dilution of **GRESNET** with water to 1:10.

FIELDS OF APPLICATION

- Cleaning of all types of ceramic tiles and mosaics, on floorings, facings and facades, in both INTERIORS and EXTERIORS.
- **Removal of efflorescence** and saltpetre from ceramic tiles (terracotta, facings) and their joints.
- Cleaning of dirt on works: **remains of cement**, powder, lime, cementitious adhesives etc.
- Removal of **left-over smears**: graffiti, Portland, **FIXCOLOR** or **EUROCOLOR FLEX** etc.
- Cleaning of small rust marks.
- Cleaning of swimming-pools.

TECHNICAL SPECIFICATIONS

GRESNET is a cleaning acid especially formulated with tensio-active agents and corrosion inhibitors, suitable for all intense cleaning jobs.

HOW TO USE

- **GRESNET** may be used pure, or reduced to a proportion of 1:10 with running water, depending on the application type, resistance of the dirt to be removed and RESISTANCE of the TILES (do prior tests in a corner).
- **GRESNET** easily applied with a brush, sponge or by pulverisation. Assist its action with intense brushing.

When there is saltpetre on facings, we recommend sponging it with **GRESNET PLUS** until it is removed.

When there is efflorescence in joints between tiles, apply **GRESNET** reduced 1:10, brush appropriately and rinse abundantly with water after 5 minutes.

TECHNICAL SPECIFICATIONS

PRODUCT

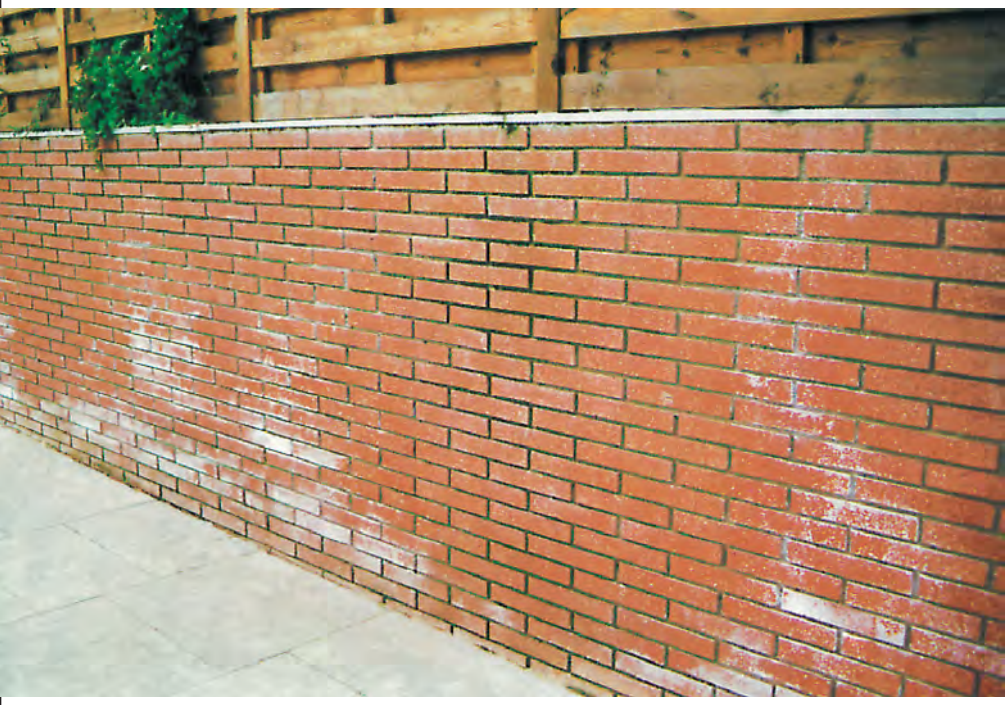
• Type:	Cleaning acid with tensio-active agents.
• Density / pH:	1.2 g/cm^3 / 1
• Flammability / Toxicity:	NO / irritant, avoid contact with skin and eyes; if contact occurs, clean with water.

• Precautions:
Do not ingest; use gloves and protective glasses; keep out the reach of children; in case of contact with the eyes, consult a doctor; **always**, when dealing with acids, **previously protect, all surfaces or objects that may by damaged by splashes or the vapours of the acid.**

PROPORTION OF THE MIXTURE	from pure to reduced 1:10 with water.
PRESENTATION	bottles and canisters of 1 l, 5 l and 25 l

GRESNET *PLUS*

Super-concentrated cleaning acid for masonry and cement-stained surfaces.

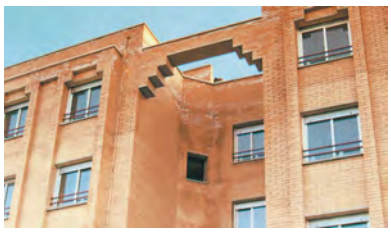


WARNING

- Do not employ on shiny surfaces such as polished marble.
- Always use gloves during installation, protective goggles are also recommended.

CONSUMPTION:

Depends largely on the number of applications. Each application can consume **0.05 lt./m^2**.



FIELDS OF APPLICATION

1) **GRESNET PLUS** is indicated in any job where **GRESNET** is not strong enough.
2) **Specially** designed for eliminating efflorescences from **masonry walls**.
3) Diluted with water cleans thoroughly all kinds of ceramic tile, mosaic, quarry, in exteriors.
4) Ideal for eliminating efflorescences from grouts, terracota, brick, etc.
5) Cleans up all cement, clay, dust and mortar from any finished surface.
6) Final cleaning up for portland cement, white cement, **FIXCOLOR**, etc.
7) Cleans up small rust stains.
8) **Professional swimming-pool cleaning**.

TECHNICAL DATA

GRESNET PLUS is a very concentrated cleaning acid specially formulated for intense and stubborn stains.

HOW TO USE

- It can be used pure or diluted down to 1:5 with water depending on the cleaning strength required and tile resistance. (It's imperative to first apply a small quantity and test the results)
- **GRESNET PLUS** is easily applied by brush, sponge or sprayed-on.
- Brushing-in is helpful when cleaning stubborn stains.
- When treating efflorescences on masonry walls, use of **GRESNET PLUS** without diluting with a sponge is recommended.

TECHNICAL DATA

PRODUCT

• Type:	very concentrated acid
• Density/pH:	1.2 g/cm^3 / 1
• Flammability/Toxicity	NO/irritant and corrosive

• Caution:
- Do not swallow. Use of protective eyeware and gloves is strongly recommended
- keep out of the reach of children
- in case of skin contact, wash thoroughly with water and soap. In case of contact with eyes, wash thoroughly with plenty of water and contact a doctor
- **protect all materials that could be damaged by contact with acid or acid fumes**.

MIXING	from pure to diluted 1:5 with water
PRESENTATION	25 lts. and 5 lts. containers

TABLE OF APPLICATIONS

				INDOOR		OUTDOOR	
Substrate	**Tile type**	**Setting Time**	**Adhesiveness**	**Product to be used**	**Mixed with**	**Product to be used**	**Mixed with**
Plaster or Pladur	Ceramic tiles with absorption	Normal	Optimum	**FIX PORCELANICO GEL**	+ water	——	
Plaster or Pladur	Quarry tiles and porcelain tiles	Normal	Optimum	**FIX PORCELANICO GEL**	+ water	——	
Waterproof Pladur	Ceramic tiles with absorption	Normal	Optimum	**FIX PORCELANICO GEL or FIXACER**	+ water	——	
Waterproof Pladur	Quarry tiles and porcelain tiles	Normal	Optimum	**FIX PORCELANICO GEL**	+ water	——	
Cement mortar	White paste tiles (walls)	Normal	Maximum	**FIXACER blanco**	+ water	**FIX PORCELANICO GEL white**	+ water
Cement mortar	Tiles whose absorption rate exceeds 3%	Normal	Optimum	**FIXACER**	+ water	**FIXACER**	+ **ADIFLEX**
Cement mortar	Ceramic tiles and quarry tiles	Normal	Maximum	**FIX PORCELANICO GEL**	+ water	**FIXAFLEX GEL**	+ water
Cement mortar	Ceramic tiles and quarry tiles (walls)	Fast	Optimum	**FIXARAPID FLEX**	+ water	**FIXARAPID FLEX**	+ water
Cement mortar	Quarry tiles (floor)	Fast	Optimum	**FIXARAPID FLEX**	+ water	**FIXARAPID FLEX**	+ water
Cement mortar	Porcelain tile	Normal	Optimum	**FIX PORCELANICO GEL**	+ water	**FIXACER**	+ **ADIFLEX**
Cement mortar	Porcelain tile	Normal	Maximum	**FIXAFLEX GEL**	+ water	**FIXAFLEX GEL**	+ water
Cement mortar	Porcelain tile	Fast	Optimum	**FIXARAPID FLEX**	+ water	**FIXARAPID FLEX**	+ water
Cement mortar	Porcelain tile (floor)	Fast	Optimum	**FIXARAPID FLEX**	+ water	**FIXARAPID FLEX**	+ water
Cement mortar	Glass mosaic	Normal	Optimum	**FIXSET GEL**	+ water	**FIXSET GEL**	+ water
HIDROELASTIC	Glass mosaic	Normal	Maximum	**TECNOCOL GEL**	+ water	**TECNOCOL GEL**	+ water
Cement mortar	Marble (thickness < 15 mm.)	Normal	Maximum	**FIXAFLEX GEL**	+ water	**FIXAFLEX GEL**	+ water
Cement mortar	Marble (thickness > 15 mm.with anchorage fee)	Normal	Optimum	**FIXAGRES FLEX thick layer**	+ water	**FIXAGRES FLEX thick layer**	+ water
Cement mortar	Marble with resins	Normal	Maximum	**FIXAFLEX GEL**	+ water	**ELASTICER** (consult Tec. Dept.)	
Cement mortar	Marble with resins	Fast	Maximum	**FIXARAPID FLEX**	+ water	——	
Old ceramic	Ceramic tiles, quarry tiles, porcelain tiles	Normal	Maximum	**FIXAFLEX GEL**	+ water	Not recommended	
Old ceramic	Quarry tiles, porcelain tiles (floor)	Fast	Optimum	**FIXARAPID FLEX**	+ water	Not recommended	
Terrazzo	Quarry tiles, porcelain tiles	Normal	Optimum	Previously open the pores with **GRESNET FIX PORCELANICO GEL**	+ water	Not recommended	
Terrazzo	Quarry tiles, porcelain tiles (floor)	Fast	Optimum	Previously open the pores with **GRESNET FIXARAPID FLEX**	+ water	Not recommended	
Irregular supports	Ceramic tiles, quarry tiles, clay tiles, natural stones,... porcelain tiles,...	Normal	Maximum	**FIXAGRES FLEX thick layer** (thick set maximum 25mm)	+ water	**FIXAGRES FLEX thick layer** (thick set maximum 25mm)	+ **ADIFLEX**
Walls of glass blocks	Glass blocks	Fast	Maximum	**FIX PORCELANICO GEL white**	+ water	**FIX PORCELANICO GEL white**	+ water
Wood, metal, PVC resilient flooring, plastic	Ceramic tiles, quarry tiles Stoneware, Marble, clay tiles	Normal	Maximum	**ELASTICER**	predosified product	**ELASTICER**	predosified product
Concrete	Anchoring metal in concrete	Normal	Maximum	**EPOXICOL**	predosified product	**EPOXICOL**	predosified product

	WATER ABSORPTION	**TEXTURE**	**INDOOR AND OUTDOOR**	**MIXED WITH**	**USES**
0 to 4 mm. joints 4 to 16 mm. joints	8% 8%	Fine Medium	**FIXCOLOR 0/4** **FIXCOLOR 4/16**	+ water + water	Fixcolor mixed with water for competitives, professional and general uses.
0 to 4 mm. joints 4 to 16 mm. joints	4% 4%	Fine Medium	**FIXCOLOR 0/4** **FIXCOLOR 4/16**	+ **LATEFIX** + **LATEFIX**	Bathrooms, swimming pools, and in general when waterproofing and stain resistance is required.
0 to 16 mm.joints	2%	Ultrafine	**EUROCOLOR FLEX**	+ water	Very fine surface finish. Waterproofed, fungicide: 8 colors.
0 a 6 mm. joints ONE SOLE STOCK	1%	Ultrafine	**IDEAL COLOR**	+ water	Very fine surface finish. 34 colors: waterproofed, fungicide, without fissures, no efflorescence. Ideal al for traditional chlorination swimming pools
0 to 10 mm. joints **VERY ANTIACID**	0%	Fine	**CERPOXI PROFESSIONAL PX**	Predosified product	Industrial use, kitchen counters, laboratories, slaughterhouses, food industries, hotel kitchens, beer, cheese and milk processing plants... Ideal for chlorinated or salt water chlorinated swimming pools
Expansion Joints	0%	Plastic	**SELLALASTIC** **SELLADOR S10** **SILICONA NEUTRA**	monocomponent	Elastomers, specially suitable for expansion joints subject to intense compression-expansion efforts.
Expansion Joints **ANTIACID**	0%	Plastic	**SELLAFIX**	Predosified product	Self-levelling polyurethane sealant for flooring expansion joints: SUPER-ELASTIC and ACID PROOF.

COLOUR REFERENCES

CERPOXI & PROFESSIONAL PX	Nº colour		FIXCOLOR	EUROCOLOR FLEX	IDEAL COLOR	Nº colour	
	85	ARCE				66	RUBI
	84	CEREZO CLARO				07	TERRACOTA
	83	MONGOY				69	VERDE MOKA
	82	ELONDO				23	VERDE OSCURO
	79	AZUL MARINO				32	COBALTO
	78	AZUL CELESTE				12	AZUL PISCINA
	77	ESMERALDA				05	MARRON OSCURO
	76	VERDE OLIVA				38	NOGAL
	75	CHOCOLATE				37	CEDRO
	74	CARAMELO				36	BARRO
	73	ROJO OSCURO				35	VENECIA
	72	TIERRA				45	MARRON MEDIO
	71	OCRE				04	MARRON CLARO
	70	AMARILLO OSCURO				19	ROBLE
	30	TRANSLUCIDO				34	PARDO
	16	VERDE GIADA				47	VISON
	15	VERDE ACIDO				33	DESIERTO
	14	VERDE AQUA				28	PLOMO
	11	NEGRO				27	TITANIO
	10	ANTRACITA				26	ALUMINIO
	09	GRIS CEMENTO				25	HUMO
	08	GRIS CLARO				68	GRIS PLATA
	04	MARRON CLARO				29	PERLA
	03	BEIGE NATURAL				24	LANA
	02	BEIGE OSCURO				67	VAINILLA
	00	BLANCO				40	BLANCO MIAMI
						48	MARRON ARENA
						46	PIEDRA
						11	NEGRO
						10	ANTRACITA
						09	GRIS CEMENTO
						08	GRIS CLARO
						01	BEIGE
						00	BLANCO

TIPS ON LAYING:

A CORRECT INSTALLATION STARTS WITH A SUPPORT IN GOOD CONDITION:

If you choose prestigious ceramics, flexible cement-based adhesives, waterproof joints, etc. and affix them onto a deficient support, you could end up with a major failure. In short, the support is what sustains the whole thing. The support is a render when talking about walls and a screed when referring to floors. **FIXCER** recommends the use of **FIX-REVOCO, PAVIFORT** and/or **RECRECEM PRE-MIX** mortars. They are pre-measured mortars, made with clean silica sand, with just the right amount of cement in ALL the sacks… in short they are the GUARANTEE for starting your tiling work correctly.

THE POT-LIFE OF A CEMENT-BASED ADHESIVE:

It is important to mix cement-based adhesives with just the right amount of water. You should follow the instructions given on the sacks. Too much water will notably reduce the properties of the adhesive and in the case of joints, lead to the appearance of white efflorescence. It is also vital never to re-mix cement by adding more water once the product has started to set. You would merely ruin the cement.

THE IMPORTANCE OF CONTROLLING THE OPEN TIME OF A CEMENT-BASED ADHESIVE:

It is very important to know the open time of the cement-based adhesive, as you will then avoid a "**surface layer**" from forming. When the cement has been spread for a long time, water from the surface evaporates, creating a "dry" layer that is very **non-stick.** If you affix the tiles on after the open time, you do NOT guarantee their good adhesion and the tile could even fall off.

FIXING TILES ON PLASTER WALLS:

On plastering, three physical and chemical processes occur that should be taken into account:

1st. - during the drying process of the wall, the so-called efflorescence occurs.

2nd. - once you have laid the tiles, a reaction between the cement and the plaster can occur creating a large increase in volume within the ceramic-cement interface.

3rd. - unlike cements that undergo a plastic retraction of about 1‰ (per mil), plaster expands by 1% in volume. This causes a difference of movement.

Therefore, you need to follow a protocol for plaster walls to receive tiles. Control:

- the absence of dust and/or surface remains of efflorescence (wipe off with a rough cloth)
- that residual damp does not exceed 0.5% (ideally use a carbide hygrometer)
- the surface hardness (using a simple awl to assess how easily it scratches)
- check that future reappearance of damp will not affect the plaster
- check that the mechanical forces to which the wall is subjected are less than the resistance of the traction of the plaster (expansion joints, etc.)

DOUBLE GLUING TECHNIQUE:

It is generally recommended that the contact area between cement-based adhesive and ceramics should be 70% as a minimum, although in special cases, such as swimming pool and façades, this percentage should increase to 100%. To do this, we recommend using the **double gluing technique:** apply the cement-based adhesive to the support, but also apply it to the back of the tiles. Only is this way will you ensure complete contact between the tile and its support.
This technique is especially important when you use THICK LAYER cement-based adhesives. The use of this kind of cement offers **adherence** and **speed**: you can install and level the support at the same time.

LAYING LARGE TILES 60x120cm., 120x120cm., 100x300cm.:

Success is based mainly on having a substrate that is **perfectly flat** before laying.
WALLS: tt is usually easier to do it vertically, as the facing will probably be made of plasterboard which is already absolutely flat. If not, regularise the whole surface using special products.
PAVING: Good regularising is not enough: the substrate must be **perfectly flat**. To achieve this, it is advisable to regularise the paving first, with **FIX-NIVEL self-levelling mortar.** Then lay the large ceramic tiles. We recommend using **FIXARAPID FLEX** cement adhesive since this single product includes many benefits: it is a self-levelling cement adhesive and therefore there is no need for a double application; it is extremely flexible, has maximum adherence and hardens quickly: repointing can be started after just 4 hours.

USING THE RIGHT TOOL IS THE KEY TO SUCCESS:

After choosing the right cement, apply it correctly. Using the right tool will give you the best results. There is a tool for each phase of the process:

- For mixing the cement: use a spiral mixer in an electric drill for 3 minutes. This will ensure that all the additives are thoroughly mixed.
- To spread the cement-based adhesive, use a trowel with the size of the teeth suitable for the piece to be affixed. This will achieve complete contact between the tile and cement.
- To spread the material for the joints: use a hard rubber trowel. Only in this way will the cement in the joints penetrate to the bottom of the gap.
- To clean the pointing: use a white scotch-brite trowel. It is a rigid tool that enables you to clean the tile without emptying the joints.

DIFFERENCES BETWEEN AN EPOXY GROUTING AND CEMENT GROUTING:

You should use cement mortar when you wish to grout a living room, bedroom, terrace, etc. And you should use **epoxy** joints when you want to have great resistance against **acid** attacks in the meat industry, swimming pools, kitchen tops, etc. The application of each material is entirely different.

When applying **cement joints**, you should mix the product with just the right amount of water, using the electric mixer; apply the product with a hard rubber trowel and after 30-40 minutes, wipe with a white scoth-brite trowel. Finally, remove surplus water with a soft sponge. If white efflorescence appears through using hard water, it can be removed after 7 days with a mixture of **GRESNET** acid and water: 1 part acid to 10 parts water.

When you apply **epoxy joints**, you should mix the pre-measured components using an electric mixer; apply the product with a hard rubber trowel and remove the remains with the same tool with movements that are diagonal to the joints; IMMEDIATELY AFTERWARDS (maximum 10 minutes) clean it off the tiles with a white scoth-brite trowel. Finally remove surplus water with a soft sponge.

INSTALLATION ON FAÇADES:

There are three points to be taken into account for this kind of installation:

a.- **choice of cement-based adhesive and of metal anchorage points:** for façades choose a cement with maximum flexibility, **C2** type. You should use the double gluing technique. In addition you will need a second level of security and this will be provided by the metal anchorage points. You should choose the most suitable one for your installation from a broad range available on the market.

b.- **static joints: the joint between tiles has a technical function:** it absorbs the effects of expansion and contraction between tiles. Remember to leave at least 5 mm of joint, and seal with coloured joint cement with a **CG2** rating for flexibility and quality.

c.- **expansion joints:** current regulations only indicate that there should be a maximum distance of no greater than 30 ml. But it does not specify either the width or the correct execution. Therefore, we refer you to the following point.

EXPANSION JOINTS:

With expansion joints, you will prevent the compression and tension forces from exceeding the respective resistance of the construction element (ceramics, bricks, concrete, mortar, and so on) thus preventing fissures, cracks, detachment, chips, etc. The best fillers for sealing expansion joints are elastomeric **polyurethane** products. These fillers adhere perfectly to the most commonly used materials in construction: bricks, ceramics, mortar, and so on and are highly elastic. The advice to be followed is:

- the depth of the joint should never exceed its width.
- the filler should not be stuck to the bottom of the joint. Before using the filler, fill the base with some elastic element, such as Porexpan, rubber, etc.
- you can isolate the filler using a similar tool and a little soapy water.
- use masking tape to protect the various surfaces of the tiles.
- in swimming pools you must take the drying time into account before filling with water.

REGULATIONS

EUROPEAN REGULATIONS EN 12.004 and EN 13.888

FIELD OF APPLICATION:
These new European regulations have been drawn up by the Technical Committee CEN/TC 67 Ceramic Tiles, and directly depends on CEN (European Committee for Standardization).

In accordance with the interior regulations of the CEN, the standardisation bodies of the following countries **are obliged top adopt** these European regulations: Germany, Austria, Belgium, Denmark, Spain, Finland, France, Greece, Ireland, Iceland, Italy, Luxembourg, Norway, Netherlands, Portugal, United Kingdom, Czech Republic, Sweden and Switzerland.

In all these countries, these regulations **must receive the status of national regulations** by means of the publication of **text identical** to same, and all technically divergent regulations must be revoked before the end of September, 2001.

These regulations apply to all adhesives and sealing materials for ceramic tiles to be laid on walls or floors, both interior and exterior, if **the relationship between the characteristics and working conditions are not established by these regulations**. It is therefore essential that the manufacturer communicates the conditions and proper use of the product. The acquirer must assess the condition of the work-place and select the appropriate product, considering all the possible risks.

Therefore, **these regulations** simply define the different types of adhesives and grouting materials, according to the chemical nature of the conglomerates. There regulations classify, define terminology, control methods and the technical conditions for the CE mark, but clearly specify that they **do not in any case replace the manufacturer's authority to specify and recommend the most suitable product to use in each case**.

DECLARATION OF PERFORMANCE:
After having expressed agreement with the requirements of these regulations, the manufacturer must prepare and maintain a **CE Declaration of Performance** which authorises the manufacturer to print the CE mark on all its products. This declaration will be an abridgement, according to the regulations, of the characteristics which the product in question fulfils and must fulfil.

REGULATION EN 12.004

AIM OF THE REGULATION:
This European regulation is applicable to all **adhesives** for ceramic tiles and natural stones, for laying on walls or floors, interior and exterior.

DEFINITIONS:
In the first place, three different types of adhesives are designated:

- **Type "C" cementitious adhesive**: a mixture of hydraulic conglomerates, mineral charges and organic additives, which need only be mixed with water or liquid addition, just before their use.
- **Type "D" adhesive in dispersion**: mixture of organic conglomerate(s) in the form of polymer in aqueous dispersion, organic additives and mineral charges, which are presented as ready for use.
- **"R" type adhesive of active resins**: a mixture of synthetic resins, organic additives and mineral charges, whose hardening results from a chemical reaction. They are available in the form of one or more components.

In second place, the characteristics which must be fulfilled are defined, differentiating these into:

- **Fundamental characteristics**: these are the requirements which the adhesives must meet **compulsorily**. This section differentiates between **normal setting** adhesives and quick setting adhesives, which will be identified with the letter **"F"**.
- **Optional characteristics**: these are extra requirements classified as **additional characteristics**, for applications that require higher performance levels. Also classified as **special characteristics** are those which introduce the concept of reduced slipping, identified with the letter **"T"**, and the concept of open extended time, identified with the letter **"E"**.

CLASSIFICATION ACCORDING TO REGULATION:

C1 T	Cementitious adhesives with reduced slipping, open extended time for floorings and facings in interiors. Not suitable for exterior use.	**FIXACER**
C2 TE	Normal-setting improved cementitious adhesive with reduced slipping and open extended time.	**FIXSET GEL**
		FIX PORCELANICO FLEX
		FIX PORCELANICO GEL
		FIXAGRES FLEX C.GRUESA
C2 TE S1	Normal-setting improved cementitious adhesive with reduced slipping, open extended time and good flexibility.	**FIXAFLEX GEL**
		TECNOCOL GEL
		TRIPLE F GEL
C2 FT S1	Quick-setting improved cementitious adhesives with reduced slipping and good flexibility.	**FIXARAPID FLEX**
C2 TE S2	MAXIMUM: high improved adhesive with very good flexibility.	**FIXMAX S2 GEL**
R2 T	Adhesive of reactive resins with additional characteristics and reduced slipping.	**PROFESSIONAL PX**
		ELASTICER

REGULATION EN 13.888

AIM OF THE REGULATION:
This European regulation is applicable to all grouting materials used for laying ceramic tiles on walls and floors, interior and exterior.

DEFINITIONS:
Firstly, two types of grouting materials are designated:

- **"CG" type cementitious grout**: a mixture of hydraulic conglomerates, mineral charges and organic and inorganic additives, which need only be mixed with water or liquid addition, just before their use.
- **"RG" type reactive resin grouting material**: a mixture of synthetic resins, mineral charges and organic and inorganic additives, whose hardening results from a chemical reaction.

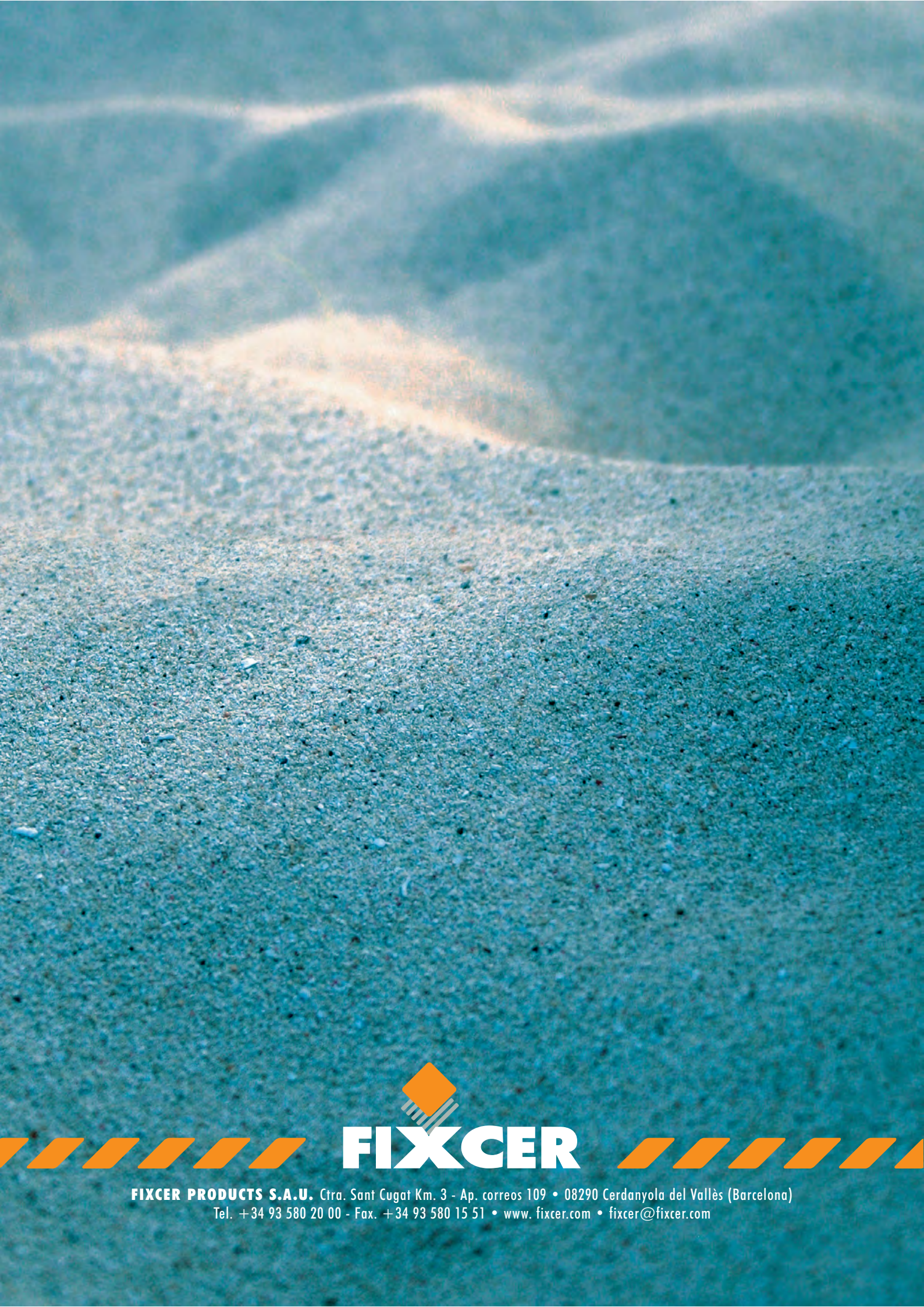
In second place, the characteristics which must be fulfilled are defined, differentiating these into:

- **Fundamental characteristics**: These are the requirements which grouting materials are obliged to meet.
- **Additional characteristics**: These are extra requirements applicable to cementitious grouting materials, for applications that require higher performance levels. The concepts of reduced water absorption and high resistance to abrasion are introduced and identified with the letters **""W A"**.

CLASSIFICATION ACCORDING TO REGULATION:

CG2 W A	Improved cementitious joint mortar with additional characteristics: high resistance to abrasion and reduced water absorption.	**FIXCOLOR**
		EUROCOLOR FLEX
		IDEAL COLOR
RG	Reactive resin grouting material.	**CERPOXI; PROFESSIONAL PX**

ALPHABETIC INDEX



FIXCER

FIXCER PRODUCTS S.A.U. Ctra. Sant Cugat Km. 3 - Ap. correos 109 • 08290 Cerdanyola del Vallès (Barcelona)
Tel. +34 93 580 20 00 - Fax. +34 93 580 15 51 • www. fixcer.com • fixcer@fixcer.com