

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.