TRIPLE F FABULOUS, FUNCTIONAL, FIXCER

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

WARNING

TRIPLE F 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** 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 in white color, ceramic and glass mosaic tiles in swimming pools, 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 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** features:

- -**GEL** texture; it is cream-like, smooth and easy-to-apply product
- -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 60x40cm, 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: 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 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: ≥ 0.5 N/mm^2
- Adhesion after immersion in water: ≥ 0.5 N/mm^2
- Adhesion after ageing with heat: ≥ 0.5 N/mm^2
- Waterproofing: no penetration (150 kPa constant pressure/7 days)
- Resistance to cracking: ≥ 0.75 mm
- Adhesion after freezing/thawing cycles: ≥ 0.5 N/mm^2
- Adhesion after immersion in chlorinated water: ≥ 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; < 15 mm
- Grout after 24 hours and set after: 48 hours
- AInitial adhesion: ≥ 1.0 N/mm^2
- Adhesion after immersion in water: ≥ 1.0 N/mm^2
- Adhesion after ageing with heat: ≥ 1.0 N/mm^2
- Adhesion after freezing/thawing cycles: ≥ 1.0 N/mm^2
- Open time: adhesion (30 min): ≥ 0.5 N/mm^2
- Transverse deformation EN 12002: ≥ 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: < 1000 mm^3
- Bending strength-dry storage: ≥ 2.5 N/mm^2
- Bending strength-freezing/thawing cycles: ≥ 2.5 N/mm^2
- Compressive strength-dry storage: ≥ 15 N/mm^2
- Compressive strength-freezing/thawing cycles: ≥ 15 N/mm^2
- Shrinkage: < 3 mm/m
- Water absorption after 30 min: < 2 g
- Water absorption after 240 min: < 5 g