TREMproof® M

Cementitious Waterproofing Slurry and Protective Coating

DESCRIPTION

TREMproof M is a two part and polymer modified cementitious waterproofing slurry to waterproof concrete and masonry. It comprises of a liquid polymer and a cement base mix incorporating with special additives.

BASIC USES

- Sealing internal basement wall against dampness
- Rigid waterproofing of water tank, swimming pools, etc.
- Pore/blowhole filing
- Interior or exterior waterproofing coating for concrete.

FEATURES & BENEFITS

- Easy to mix and apply / slurry and trowel consistency
- Protects against concrete carbonation and water penetration
- Good adhesion to sound substrates
- Increased salt and frost resistance
- Non-toxic; suitable for contact with drinking water
- Non-corrosive to steel and iron
- Approved by SPAN (SPAN/BPAI/300-10/1725/B/W-3)

PACKAGING

Packed in 25 kg sets
(Part A: 5 kg and Part B: 20 kg)

COVERAGE

- Waterproofing bathroom, balconies, terraces 1.0 kg/m^2 per coat.
- Waterproofing coating up to 1m water head is 1.5 kg/m^2 per coat.
- Waterproofing coating more than 1m water head is 2.0 kg/m^2 per coat.
- As per protective coating is 2 kg/m^2 per coat

Note: TREMproof M must be applied in minimum 2 coats. 3 coats may be required in area of extremely high infiltration.

DIRECTIONS FOR USE

Substrate Quality: Surface must be structurally sound and free of all traces of contaminants, loose or friable particles, cement laitance, sharp edges, oil and grease etc.

Substrate Preparation: General - The substrate must be prepared by suitable mechanical preparation techniques such as high pressure water jetting, needle gun, blast cleaning, scabblers, etc and properly pre-wetted to a saturated surface dry condition. For pore/blowhole filling: Blast clean to remove all contaminants including from the pore / blowholes. As a levelling mortar: Prepare and clean all surfaces by suitable mechanical means such as abrasive blast cleaning or equivalent to ensure cement laitance, surface contamination and all existing coatings are removed and all blowhole sand honeycombed areas are exposed. The resultant surface must be profiled to achieve maximum bond strength. Absorbent surfaces have to be thoroughly saturated with water prior to application of first coat of TREMproof M. However, no standing water should be on the surface before application. All intersection of horizontal and vertical surfaces should be profiled with a mortar fillet of 25 mm x 25 mm.

Note: TREMproof M will not bond to surfaces that have been treated previously with a water repellent.

Mixing: Under normal circumstances, when the full quantities of both components are mixed together, a slurry consistency will be achieved. The consistency of the mix can be altered by reducing the amount of Part A (liquid) to be used. For trowel application, use only 90% of Part A (approximately 4.5 kg). Mix in a clean container by slowly adding Part B (powder) to Part A (liquid) and stirring with a low speed mixer. Use within 30 minutes. Mixing Time: 3 minutes.

Application: Whilst the substrate is still damp from saturation, apply the first coat. Leave to harden for approximately 4 – 8 hours at temperature above 20°C before applying the second coat. As a slurry: Apply the mixed TREMproof M by hand using a hard plastic bristled brush or broom. Apply in the same direction.

Apply the second coat of TREMproof M in crossing direction to the first application as soon as first coat has dried. As a mortar: When TREMproof M is applied by trowel (e.g. for a smooth surface finish) product must be mixed with a 10% reduction of Part A. Apply the second coat of TREMproof M as soon as the first coat as hardened. For bore/ blowhole filling, tightly trowel into the pores / blowholes of the surface. For floor application, to avoid risk of damage to the first coat, it is recommended that the second coat be applied before 24 hours. If the second coat is applied 12 hours or later, the first coat shall be slightly pre-wetted, preferably by using a fine spray. After the second coat has been applied, a better finish can be achieved by rubbing down with a soft, dry sponge. For more details, please contact our Technical Department.

Pot Life: 30 minutes (at 30˚C). Pot life will be shortened at high temperatures.

Curing: Generally not required but precautions should be taken for applications done directly under sunlight and windy condition.

CLEAN UP

Clean all the tools and application equipment with water immediately after use. Hardened and/or cured material can only be mechanically removed.

SAFETY PRECAUTIONS

The Technical and Safety Data Sheets must be read and understood before use.

WARRANTY

Tremco warrants its Products to be free of defects in materials but makes no warranty as to appearance or colour. Since methods of application and on-site conditions are beyond our control and can affect performance, Tremco makes no other warranty, expressed or implied, including warranties of MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE with respect to Tremco Products. Tremco's sole obligation shall be, at its option, to replace or to refund the purchase of the quantity or Tremco product proved to be defective and Tremco shall not be liable for any loss or damage.

TYPICAL PHYSICAL PROPERTIES	
PROPERTY	DESCRIPTION
Appearance	Part A: White liquid Part B: Grey powder Part A + B (mixed): Grey slurry
Density	1.80 – 1.90 kg/ltr freshly mixed mortar
Compressive Strength (EN 12190)	28 days > 20 N/mm^2
Flexural Strength (EN 196-1)	28 days > 7.0 N/mm^2
Water Absorption ($kg/m^2.h^{0.5}$) (EN 1062-3)	< 0.1 $kg/m^2.h^{0.5}$
Adhesive Strength (ASTM D4541)	> 0.60 N/mm^2
Pot Life	~30 minutes (at 30 °C), the pot life will be shorter at higher temperature.
Shelf Life	12 months from the date of production