TREMCO
Construction Products Group

TREMprime EP

Two Component, 100% Solids, Epoxy Primer

PRODUCT DESCRIPTION

TREMprime EP is 100% solids, two component epoxy primer, recommended for use on porous substrates or concrete with a poor finish or surface imperfections. TREMprime EP can also be mixed with various Tremco Aggregates to create a mortar for patching and coving. TREMprime EP is also used as a compatible tie-coat to create connectivity between otherwise incompatible membranes.

USAGE/PURPOSE

- ❑ High performance primer for use with the various Vulkem, TREMproof and AlphaGuard Bio systems.
- ❑ Primer for use on concrete with a poor finish or surface imperfections, such as concrete pitting and small surface voids.
- ❑ Can be mixed with various Tremco Aggregates to create a mortar for patching and coving.
- ❑ Connectivity/barrier primer for TREMproof 250GC, TREMproof 201/60R, TREMproof Torch Membranes, TREMproof 560A, TREMproof P85 and TREMproof 260.

FEATURES & BENEFITS

- ❑ Low VOC.
- ❑ 100% solids.
- ❑ Can be installed over concrete with a poor finish.
- ❑ Can be mixed with Tremco Aggregate and used as a mortar.
- ❑ Can be used as barrier/connectivity primer.

PACKAGING

16.36L Kit (18kg)

COLOUR

Amber

SHELF LIFE

12 months when stored as recommended in original, unopened packaging.

STORAGE

Store in a dry cool place in an upright position in original unopened packaging.

TYPICAL PHYSICAL PERFORMANCE	
PROPERTY	**TYPICAL VALUES**
Maximum VOC	31 g/L
% Solids by Volume	100%
Minimum Overcoating	4 Hours
Maximum Overcoating	24 Hours
Pot Life	15-25 Minutes

LIMITATIONS

- ❑ High moisture substrates (>4.5% moisture or above, as per a Tramex CME Moisture Meter).
- ❑ Substrate surface and ambient temperature during applications should be between 10°C and 40°C. If the substrate is below 10°C, TREMprime EP may not cure.
- ❑ Material temperatures should be at least 15°C and rising.
- ❑ Working time and cure time will decrease as the temperature increases and will increase as the temperature decreases.



- ❑ Do not thin TREMprime EP.
- ❑ Not suitable for use as a UV exposed.
- ❑ TREMprime EP is not to be used as a finished/aesthetic coating.
- ❑ TREMprime EP should be applied at 3°C above the dew point.

SUBSTRATE PREPARATION FOR CONCRETE SURFACES

1. Concrete shall be water-cured and attain a 20 MPa minimum compressive strength. Moisture content in the concrete must be lower than 4.5% as measured using a Tramex CME Moisture Meter. Depending on concrete construction and job site location, additional concrete testing may be required. Please contact your local Tremco Representative.
2. Concrete shall be free of any laitance which may inhibit sufficient adhesion. Removal of laitance can be achieved through a variety of physical abrasion methods, such as, shot-blasting (preferred method) sandblasting or grinding.
3. Concrete surface shall be properly cleaned so that the surface to receive the coating, sealant or liquid-applied flashing is free of mould, paint, sealers, coatings, curing agents, loose particles, and other contamination or foreign matter that may interfere with the adhesion.
4. Shrinkage cracks in the concrete surface that are 1.6mm wide or greater shall be ground out to a minimum 6mm wide x 12mm deep and treated according to the instructions in “Detail Work” section.
5. Structural cracks regardless of width shall be ground out to a minimum 6mm wide x 12mm deep and treated according to the instructions in “Detail Work” section.
6. Spalled areas shall be cleaned free of loose contaminants prior to repair. Because jobsite conditions vary, it is recommended that you contact your local Tremco Representative. Depending on the substrate and depth of the spalled areas, a Eucocrete repair product will be recommended as the best method of repair.
7. In the event of exposed reinforcing steel, it is recommended that the structural engineer of record be contacted for investigation and for best repair method.
8. Surfaces shall be made free of defects that may telegraph and show through the finished coating. Surfaces that are rough (fins, ridges, exposed aggregate, honeycombs, deep broom finish, etc.) shall be leveled and made smooth by applying a coat of sand-filled epoxy using TREMprime EP.
9. All drains shall be cleaned and operative. Drains shall be recessed lower than the deck surface. The surface shall be sloped to drain to provide positive drainage (1:100) as per AS4654.2. Drains should be detailed as instructed below:
   - Cut a 6mm wide x 12mm deep keyway into the concrete surface at any point where the coating will have an exposed terminating edge - that is, any point where the coating will end in an open

area subject to traffic, for example, at the end of a ramp, around drains and alongside expansion joints.

10. If the project is a restoration deck, old sealant and membrane material shall be removed. The joint interface will require a thorough wire brushing, grinding, sandblasting, solvent washing and/or primer.

USAGE

The following is a guide to estimate material usage:

COVERAGE RATE		THICKNESS	
5.0m^2/L	81.1m^2/Kit	0.20mm WFT	0.20mm DFT

*All coverage rates are approximate & vary with substrate condition.

METHOD OF APPLICATION

1. Precondition both TREMprime Part A & Part B components at 15 – 27°C for a minimum of 24 hours prior to mixing.
2. Pre-mix the TREMprime EP Part A with a suitable electric paddle mixer at a rate of 500rpm for a minimum of 2 minutes, ensuring there is no settlement at the base of the drum.
3. Combine the TREMprime EP Part B, then mix with a suitable electric paddle mixer at a rate of 500rpm for a minimum of 2 minutes. Ensure there is no streaks or striations. Be sure during mixing to not move the paddle in a rapid up and down motion or developing a rapid vortex, as that will cause air entrapment and lead to blisters and/or pinholes in the applied coating.
4. All porous substrates must be primed with TREMprime EP primer at a rate of 5 m^2/L or 0.20mm WFT. Coverage rate will depend on the porosity of substrate.
5. Allow TREMprime EP to cure for a minimum of 5 hours before the application of the Tremco polyurethane sealant or membrane. If the TREMprime EP has been left for more than 24 hours or has been contaminated with dirt/debris:
   I. Lightly abrade the existing TREMprime EP.
   II. Clean the existing TREMprime EP with Tremco Xylol.
   III. Apply a new coat of TREMprime EP.
6. Where physical abrasion methods such as shot blasting, sand blasting or grinding have been used on a concrete substrate, a minimum of 2x coats of TREMprime EP must be applied.
7. Ensure to work the TREMprime EP into the substrate surface to fill voids and eliminate pin-holes. Where pin-holes are observed in the cured coating, additional coat/s of TREMprime EP must be applied prior to subsequent membrane application. Successive coats should be applied at right angles to the previous coat.
8. It is recommended to apply the TREMprime EP to a 'cooling substrate' (after the hottest part of the day) to minimise out-gassing and reduce the risk of pin-holes.

CLEAN UP

- ❑ Clean all adjacent areas to remove any stains or spills with Tremco Xylol.
- ❑ Clean tools or equipment with, Tremco Xylol before materials cure.
- ❑ Clean hands by soaking in hot, soapy water, then brushing with a stiff-bristle brush.

TROUBLESHOOTING

This section describes common industry application issues when certain environmental conditions exist and their remedies. If any of these should occur, it is always recommended that you contact your local Tremco CPG Representative.

1. If the coating application has been installed at a thickness that is greater than our installation instructions, dry times could be extended significantly. As a result, Tremco CPG recommends that the material is applied in accordance with the installation instructions.
2. If the coating is applied in very hot ambient temperatures, the air in the small spaces between the concrete particles increases in volume and forms blisters. Contact Tremco CPG should this occur.

HEALTH & SAFETY PRECAUTIONS

The Safety Data Sheet (SDS) must be read and understood prior to use.

TECHNICAL SERVICE

Tremco CPG Australia Pty Ltd has a team of Representatives who provide assistance in the selection and specification of products. For more detailed information or service and advice, call Customer Service on (02) 9638 2755 or fax (02) 9638 2955.

GUARANTEE/WARRANTY

TREMCO products are manufactured to rigid standards of quality. Any product which has been applied (a) in accordance with TREMCO written instructions and (b) in any application recommended by TREMCO, but which is proved to be defective, will be replaced free of charge. Any information provided by TREMCO in this document in relation to TREMCO's goods or their use is given in good faith and is believed by TREMCO to be appropriate and reliable. However, the information is provided as a guide only, as the actual use and application will vary with application conditions which are beyond our control. TREMCO makes no representation, guarantee or warranty relating to the accuracy or reliability of the information and assumes no obligation or liability in connection with the information. To the extent permitted by law, all warranties, expressed or implied are excluded.

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