TREMproof 200EC

Two-Component, Water-Based Epoxy Primer and Hydrostatic Barrier

PRODUCT DESCRIPTION

TREMproof 200EC is a two-component, waterborne epoxy primer, designed to be applied to porous high moisture substrates.

TREMproof 200EC can also be used as a negative barrier to mitigate against water ingress in hydrostatic conditions.

USAGE/PURPOSE

- ❑ High moisture primer for use under all Tremco polyurethane and acrylic membranes.
- ❑ Suitable to be used as a negative barrier to mitigate water ingress in hydrostatic conditions.
- ❑ Can be used in both external and internal applications.
- ❑ Suitable to be applied to most porous substrates.

FEATURES & BENEFITS

- ❑ Low VOC.
- ❑ Can to be installed over green concrete, allowing for an accelerated construction schedule.
- ❑ Can be installed over a high moisture, porous substrate (>4.5% moisture or above as per a Tramex CME Moisture Meter).
- ❑ Ability to withstand up to 250 kPa (25 m) hydrostatic pressure head when fully cured and applied onto a suitable, sound substrate (@ 0.4mm DFT).

PACKAGING

20L Kit

COLOUR

Light Grey

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.

LIMITATIONS

- ❑ When applied in enclosed areas, the cure rate of TREMproof 200EC will be dramatically lengthened. As such, Tremco recommends adequate ventilation and air flow to promote sufficient drying times.
- ❑ Installing TREMproof 200EC in cold temperatures or high relative humidity environments will dramatically increase the time needed for the TREMproof 200EC to cure.
- ❑ Not suitable for use as a UV exposed.

USAGE

The following is a guide to estimate material usage:

Coverage Rate	Thickness	
$5m^2/L$	0.20mm WFT	0.09mm DFT

TYPICAL PHYSICAL PERFORMANCE	
PROPERTY	**TYPICAL VALUES**
VOC g/L - Test Method = (APAS) – AP-D181*	<30
Volume Solids	45%
Minimum Overcoating	4 Hours
Maximum Overcoating	24 Hours
Pot Life	2 Hours
Water Vapour Transmission Rate	$1.3g/m^2$/24 hours 0.4mm DFT
Hydrostatic Head Resistance	250 kPa (25 m head) at 0.4mm DFT

** The VOC content of the products is a weighted average of the VOC contents of all the raw materials in the formulation. It is determined by calculation using raw material data from suppliers.*

CONDITIONS PREPARATION FOR CONCRETE SURFACES

1. Concrete shall be water-cured and attain a 20 MPa minimum compressive strength. No ponding water should be present, consult Tremco technical services for project specific advice where required.
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 levelled 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.

METHOD OF APPLICATION - PRIMER

1. Pre-mix the TREMproof 200EC 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.
2. Pre-mix the TREMproof 200EC Part B 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 TREMproof 200EC Part A and 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.
4. All porous substrates must be primed with TREMproof 200EC primer at a rate of 5m^2/L. Coverage rate will depend on the porosity of substrate.
5. When the substrate has a high moisture content (>4.5% using a Tramex Moisture Meter), a minimum of 2x coats of TREMproof 200EC primer must be applied.
6. Allow TREMproof 200EC primer to cure before applying Tremco polyurethane sealant or membrane. If TREMproof 200EC primer has been left for more than 24 hours or has been contaminated with dirt/debris, clean with water and lightly scuff, then apply a new coat of TREMproof 200EC primer.
7. 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 TREMproof 200EC primer must be applied.
8. Ensure to work the TREMproof 200EC primer into the substrate surface to fill voids and eliminate pin-holes. Where pin-holes or bubbles are observed in the cured coating, additional coat/s of TREMproof 200EC primer must be applied prior to subsequent membrane application. Successive coats should be applied at right angles to the previous coat.
9. It is recommended to apply the TREMproof 200EC primer to a 'cooling substrate' (after the hottest part of the day) to minimise out-gassing and reduce the risk of pin-holes or bubbles.
10. Where TREMproof 200EC is being used as a negative barrier in hydrostatic conditions, a 0.4mm DFT must be achieved.

CLEAN UP

- ❑ Wash all equipment in water or water/detergent immediately on completion of application and mixing.
- ❑ Ensure dirty equipment is not left soaking in water.

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 Representative.

1. When a deck contains too much moisture, the moisture may change into a vapor, which then condenses at the concrete primer interface before the primer has cured and may cause pin holes, ultimately interfering with proper adhesion. If this should occur, Tremco recommends using a second coat primer.

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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