TREMCO

Vulkem 171 Primer

One-Part, Rapid Drying Solvent-Based Primer for Porous Substrates Prior to Application of Polyurethane Sealants/Membranes

PRODUCT DESCRIPTION

Vulkem 171 primer is a quick-drying, one-part, moisture-curing primer that enhances adhesion to concrete, plywood and other porous substrates where Vulkem urethane sealants, membranes or coatings will be applied.

USAGE/PURPOSE

Vulkem 171 Primer is used as an adhesion promoter for Tremco polyurethane sealants and membranes on porous surfaces such as concrete and wood.

FEATURES & BENEFITS

❑ Single component product provides efficient use of material for small areas.

❑ Quick Drying allows contractors to install membrane within 60 minutes of primer application.

PACKAGING

15L Drum

COLOURS

Amber

TYPICAL PHYSICAL PERFORMANCE	
PROPERTY	**TYPICAL VALUES**
Type	Solvent Based Adhesive
Physical State	Viscous Liquid
Odour	Solvent
Tack Free Time (@ 25°C)	<60 minutes

SHELF LIFE

12 months when stored as recommended in original unopened packaging.

STORAGE

Store in original, undamaged packaging in a clean, dry, protected location.

LIMITATIONS

❑ Do not apply over contaminated or damp surfaces.

❑ Do not thin.

❑ Do not use with Silicone, Acrylic or Bitumen technology.

❑ Not to be used as a vapour retarder or efflorescence barrier.

CONDITIONS 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 4 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 primer is free of mould, paint, sealers, coatings, curing agents, loose particles, and other contamination or foreign matter that may interfere with the adhesion.

4. 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 TREMcrete repair product will be recommended as the best method of repair.

USAGE

The following is a guide to estimate material usage:

Coverage Rate	Thickness	
7 - 10 m²/L	0.1mm - 0.15mm WFT	0.033mm - 0.05mm DFT

METHOD OF APPLICATION

1. Vulkem 171 primer should be mixed with a suitable electric paddle mixer at a rate of 500rpm for a minimum of 3 minutes, ensuring there is no settlement at the base of the drum.

2. All porous substrates must be primed with Vulkem 171 primer at a rate of 7 – 10 m²/L. Coverage rate will depend on the porosity of substrate.

3. Allow Vulkem 171 primer to become tacky before applying Tremco polyurethane sealant or membrane. Do not allow Vulkem 171 primer to fully dry or become hard/glossy. If Vulkem 171 primer has been left for more than 4 hours, reactivate with a supplementary coat of Vulkem 171 primer.

4. 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 Vulkem 171 primer must be applied.

5. Ensure to work the Vulkem 171 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 Vulkem 171 must be applied prior to subsequent membrane application. Successive coats should be applied at right angles to the previous coat.

6. It is recommended to apply the Vulkem 171 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.

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 Representative.

1. When a deck contains too much moisture, the moisture may change into a vapour, which then condenses at the concrete-primer interface before the coating has cured and may cause pin holes, ultimately interfering with proper adhesion. If this should occur, Tremco recommends using a vapour retarding primer like TREMproof 200EC or TREMprime MSUP.

2. If primer has been left for a prolonged period and has become hard/glossy, reactivate with Vulkem 191 QD interlaminary primer.

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HEALTH & SAFETY PRECAUTIONS

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

TECHNICAL SERVICE

Tremco 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.