TREMCO

TECHNICAL DATA SHEET

TREMprime™ VB PLUS PRIMER

Moisture Mitigation Treatment System

PRODUCT DESCRIPTION

TREMprime™ VB Plus Primer is a two component, modified epoxy system designed to seal concrete and reduce moisture vapor transmission on concrete slabs with elevated levels of moisture. TREMprime VB Plus has proven to reduce moisture vapor emissions and be resistant to damage from sustained high alkalinity up to pH 14, the highest level. TREMprime VB Plus meets or exceeds the requirements of ASTM F3010-13, "Standard Practice for Two-Component Resin Based Membrane-Forming Moisture Mitigation Systems".

BASIC USES

TREMprime VB Plus is compatible with all TREMproof PUMA for below grade waterproofing systems, Vulkem EWS systems, Tremco Vulkem vehicular and pedestrian systems, TREMproof 201/60, TREMproof 250GC, TREMproof 6100, and TREMproof 6100BM.

FEATURES & BENEFITS

- Reduces moisture vapor emission through concrete.
- Exceeds requirements of ASTM F3010
- Resistance up to 25 lbs MVER on Calcium Chloride Test (ASTM F1869)
- Resistance up to 100 RH% on the RH Probe Test (ASTM F2170)
- Resistant to high alkalinity, up to pH 14
- Fast cure time
- Low odor and non-flammable
- High physical properties, chemical resistant

COVERAGE RATE

Two Coats at 100 ft²/gal (2.5 m²/L)
16 wet mils each coat

PACKAGING

Part A 2.4 gal. (9.08 L) pail
Part B 1 gal. (3.79 L) pail
Sold as a 2 kit unit (6.8 gals)

AVAILABILITY

Immediately available from your local Tremco Sales Representative, Tremco distributor, or warehouse.

STORAGE

Store indoors, protected from moisture, at temperatures between 50 °F and 90 °F (10 °C and 32 °C).

LIMITATIONS

- All surfaces must be sound, clean, dry, and free from contamination. A thorough wire brushing, grinding, sandblasting, or solvent cleaning may be required to expose clean, sound, virgin surfaces.
- Not for use over expanded polystyrene, extruded polystyrene, tongue and groove decks, wood decks, poured in place gypsum, lightweight insulating concrete, cementitious wood fiber decks and coal tar pitch.
- Any questions regarding drying times, coverage rates and unique application techniques regarding the individual primers should be directed to Tremco Technical Services or your local Tremco Sales Representative.
- Do not apply over contaminated or damp surfaces.
- Do not apply in falling precipitation or when precipitation is imminent.
- Do not thin.
- Material is to be applied when ambient, substrate, and material temperatures are between 50 °F (10 °C) and 90 °F (32 °C). Substrate must be at least 5 °F (3 °C) above the measured dew point temperatures to avoid dew point conditions.
- Material to be applied when ambient temperatures are steady or falling to avoid outgassing of concrete.
- Below-slab vapor retarder is recommended to assist with mitigation of vapor drive.
- Material is not to be applied over moving joints or expansion joints.
- Do not break down into smaller quantities.
- Core testing to examine the slab for contaminants is not required but is highly recommended and is the responsibility of the owner or owner's representative.
- Concrete substrate must be cured for seven days prior to application.

APPLICATION

Quickly spread the mixed material using a flat or notched squeegee to achieve 16 mil coverage on the properly prepared concrete. Backroll the spread material using a 3/8" medium nap roller to ensure even coverage. Once material has cured through then apply a second layer of material at 16 mils over the first layer of cured epoxy. Apply using a flat or notched squeegee and backroll with a 3/8" medium nap roller to ensure even coverage. Immediately broadcast 20-40 mesh silica sand to refusal over the wet epoxy at a rate of 0.7 to 1.0 lb/ft^2. Allow to fully cure through and sweep excess sand off before applying the next layer of coating.

EXPECTED CURE TIME @ 16 MILS, PRECONDITIONED @ 75°F (24°C)			
	50 °F (10 °C)	75 °F (24 °C)	90 °F (32 °C)
Cured Through	20 Hours	4 hours	75 minutes

WARRANTY

A repair or replacement warranty is available on all Tremco products. Visit https://www.tremcosealants.com/warranties/ for details.

TYPICAL PHYSICAL PROPERTIES		
PROPERTY	TEST METHOD	TYPICAL VALUE
Alkaline Resistance 14 day immersion	ASTM D1308	10% Sodium Hydroxide unaffected 50% Sodium Hydroxide unaffected
Adhesion to Concrete	ASTM D7234	> 250 psi (1.7 MPa)
Compressive Strength 7 days	ASTM D695	14,000 psi (97.2 MPa)
Cure Time/foot traffic 75°F (24°C)	N/A	5 hours
Flammability	ASTM D635	Self-Extinguishing
Pot Life @ 75°F		20 to 25 minutes
Hardness, Shore D	ASTM D2240	80 to 90
Mixed Ratio (by volume A:B)	N/A	2.4 : 1
Perms	ASTM E96 Perms	16 mils. . . . 0.062 grains/hr^{-1}ft^{-2}in Hg^{-1}
pH Resistance (14 day test)	ASTM D1308	Pass
Recoat Time at 75 °F (24 °C)	N/A	Minimum 4-5 hours Maximum 24 hours
Tensile Elongation (7 days)	ASTM D638	2%
Tensile Strength	ASTM D638	> 7,000 psi (48.6 MPa)
Viscosity	N/A	850 cps
VOC	EPA Method 24	< 50 g/L
Volume Solids	N/A	100%

Please refer to our website at www.tremcosealants.com for the most up-to-date Product Data Sheets.

NOTE: All Tremco Safety Data Sheets (SDS) are in alignment with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) requirements.

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