TREMproof® PUMA Below-Grade Membrane (Horizontal Application)

Horizontal Waterproofing System – Ready for Use 1hr after Application

Product Description

TREMproof® PUMA is a cold-applied, waterproofing system that utilizes polyurethane-methacrylate (PUMA) technology. PUMA waterproofing systems offer superior elongation over traditional MMA/PMMA technology systems. TREMproof PUMA is composed of a primer (Tremco PUMA Primer) and a base coat (Tremco PUMA BC or). All system components are cured using Tremco PUMA Initiator.

Tremco PUMA Primer is a methyl-methacrylate (MMA), two-component primer for porous and non-porous substrates. Tremco PUMA BC, a modified polyurethane-methacrylate (PUMA) base coat, bonds firmly to Tremco PUMA Primer. It retains its integrity even if substrate movement causes hair-line cracks of up to 1/16" (1.5 mm). If cut or damaged, Tremco PUMA BC will prevent water migration between itself and the substrate.

Tremco PUMA BC LM is a low-modulus version of Tremco PUMA BC waterproofing membrane that is used when dynamic movement and extreme service temperature ranges are anticipated.

TREMproof PUMA is designed to have tenacious adhesion and extreme abrasion resistance. It can provide the ability to proceed with overburden one hour after application, which expedites construction schedules.

Basic Uses

TREMproof PUMA is a cold-applied system designed for waterproofing concrete slabs and protecting occupied areas underneath from water damage. This waterproofing system is ideal for split-slab, paver systems, planters and vegetated roofs.

Features and Benefits

- Delivers extreme durability while maintaining crack-bridging characteristics, eliminating the need for reinforcing fabric
- 30 to 45-minute cure time between coats; ability to proceed to overburden 1 hour after application.
- Can be applied at temperatures as low as 20 °F (-7 °C)
- Zero Volatile Organic Compounds (VOCs)
- Compatible with approved Tremco sealants and coatings
- Premium waterproofing system backed by an all-inclusive warranty

Availability

Immediately available from your local Tremco Sales Representative.

Packaging

Tremco PUMA Primer: 6-gal pails

Tremco PUMA BC (all grades): 6-gal pails

Tremco PUMA Initiator: 22-lb or 55-lb pails

Tremco PUMA Cleaner: 6-gal pails

Installation

Concrete shall be water-cured and attain a 4000 PSI minimum compressive strength. Concrete finish shall be a light steel trowel followed by an equivalent ICRI #3 or #4 finish. Moisture content in the concrete must be lower than 6% 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 Sales or Technical Services representative.

Please refer to the TREMproof PUMA Application Instructions for complete application details. The techniques involved may require modification to adjust to job-site specific conditions. Consult your Tremco Sales Representative or Tremco Technical Services for site conditions and requirements.

Limitations

- Do not apply to damp or contaminated surfaces.
- Use with adequate ventilation.

Warranty

Tremco warrants its Products to be free of defects in materials but makes no warranty as to appearance or color. 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 price of the quantity of Tremco Products proven to be defective, and Tremco shall not be liable for any loss or

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.

TYPICAL PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	TREMCO PUMA BC (All Grades)
Flash Point	Set-A-Flash	53°F
VOC Content	Method 310	0 g/L
% Solids (by Weight)	ASTM D1353	100%
Drying Time @ 75°F, 50% RH	ASTM D1640	80 mil film, 1 hr
Weathering	ASTM D822 Weatherometer 350 hr	N/A
Elongation	ASTM D638	407% - 420%
Elongation	ASTM D5147	Min 30%
Tensile Strength	ASTM D638 @ 75°F	991 - 1680 psi
Tearing Resistance	ASTM D4073	91 lbf
Hardness (Shore D)	ASTM D2240	18 - 35
Hardness (Shore A)	ASTM D2240	65 - 87
Abrasion Resistance (1000 cycles)	ATSM D4060	N/A
Low-Temperature Crack Bridging	ASTM C1305	Passes
Taber Abrasion	ASTM C501	Passes
Peak Load @ 73°F, avg.	ASTM D5147	>70 lbf/in
Puncture Resistance	ASTM D5602	> 56 lbs
Water Absorption	ASTM D570	< 0.1%
Water Vapor Transmission	ASTM E96	0.03 perms
Adhesion-in-Peel	ASTM C794	Concrete failure with primer
Self-Ignition Temperature (°F)	ASTM D1929	800° 427°C
Smoke Density (%)	ASTM D2843	4.1%
Rate of Burn (in/min)	ASTM D635	1.2 in/min

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