



BC BUILDING PRODUCTS
THE ENVELOPE SPECIALISTS

TECHNICAL DATA SHEET

TREMproof® PUMA Horizontal

Manufacturer: Tremco CPG Inc.

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TECHNICAL DATA SHEET

TREMproof® PUMA
Waterproofing System-
Horizontal 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 horizontal System is composed of a primer (Tremco PUMA Primer or TREMprime VB) and a base coat (Tremco PUMA BC or BC LM). All system components, except TREMprime VB, are cured using Tremco PUMA Initiator or Initiator+.

Tremco PUMA Primer is a polymethyl-methacrylate (PMMA), two-component primer for porous and non-porous substrates.

TREMprime VB Primer is a two-component, epoxy-based, solvent-free vapor barrier primer for concrete and plywood surfaces.

Tremco PUMA BC is a polyurethane-methacrylate (PUMA) base coat that 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.

Tremco PUMA Initiator/Initiator+ is a reactive catalyst in the form of a white powder used to cure all PUMA/PMMA resins.

BASIC USES

TREMproof PUMA Horizontal System 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 & BENEFITS

- PUMA technology delivers extreme durability while maintaining its 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 14 °F (-10 °C), which allows for continuation of projects in the colder months.
- Zero Volatile Organic Compounds (VOCs).
- Compatible with Tremco sealants, coatings and expansion joints, which is essential for tie-ins, detailing and penetrations.

AVAILABILITY

Immediately available from your local Tremco Sales Representative.

PACKAGING

Tremco PUMA Primer: 2-gal and 6-gal pails

TREMprime VB Primer: Part A: 2.4-gal pails Part B: 1.2-gal pails

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

Tremco PUMA Initiator: 22-lb in 2-gal pails & 55-lb in 6-gal pails

Tremco PUMA Initiator+: 10-lb in 3-gal pails, 25-lb in 6-gal pails, 25 75-g pouches in a box

Tremco PUMA Cleaner: 6-gal pails.

INSTALLATION

Tremco PUMA components are designed for use with the Vulkem EWS and TREMproof PUMA systems. 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

- Use with adequate ventilation
- Not for use over expanded polystyrene, extruded polystyrene, poured in place gypsum, lightweight insulating concrete, cementitious wood fiber decks and coal tar pitch
- Do not apply in falling precipitation or when precipitation is imminent.
- All surfaces must be sound, clean, free of standing water and free from contamination.
- Any questions regarding drying times, coverage rates and unique application techniques should be directed to Tremco Technical Services or your local Tremco Sales Representative
- Do not apply over contaminated surfaces.
- Do not thin.
- Substrate must be at least 5 °F (3 °C) above the measured dew point temperatures to avoid dew point conditions.
- Do not store in direct sunlight for prolonged periods.
- Unvented metal pan decks, slab-on-grade and hollow core plank decks require additional qualification prior to application. Please contact Tremco technical services for more information.

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	TREMCO PUMA BC
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	ASTM D1929	800 °F 427 °C
Smoke Density	ASTM D2843	4.1%
Rate of Burn	ASTM D635	1.2 in/min

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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