
PRODUCT DESCRIPTION

TREMproof® PUMA Asphalt Overlay System is a cold-applied, waterproofing system that utilizes polyurethane-methacrylate (PUMA) technology. PUMA waterproofing system offers superior elongation over traditional MMA/PMMA technology systems. TREMproof PUMA Asphalt Overlay System is composed of a primer (Tremco PUMA Primer or TREMprime VB Plus Primer), a base coat (Tremco PUMA BC or BC LM), a wear coat (Tremco PUMA WC) and a tack coat by others. All system components, except TREMprime VB Plus, are cured using Tremco PUMA Initiator+.

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

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.

Tremco PUMA BC is a polyurethane-methacrylate (PUMA) base coat. Tremco PUMA BC 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 WC is a polyurethane-methacrylate (PUMA) wear coat. Tremco PUMA WC is applied after Tremco PUMA BC has cured. The wear coat is loaded with aggregate to give the system excellent impact resistance.

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

BASIC USES

TREMproof PUMA Asphalt Overlay 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 use under asphalt.

FEATURES & BENEFITS

- Polyurethane-Methacrylate (PUMA) technology delivers extreme durability while maintaining its crack-bridging characteristics, eliminating the need for reinforcing fabric.
- Rapid set-up times allow for quick overall installation, as well as the ability to proceed with overburden one 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 Plus Primer: Part A: 2.4-gal pails Part B: 1-gal pails

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

Tremco PUMA WC: 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	TREMCO PUMA WC
VOC Content	Method 310	0 g/L	0 g/L
% Solids (by weight)	ASTM D1353	100%	100%
Drying Time @ 75 °F, 50% RH	ASTM D1640	80 mil film, 1 hr	65 mil film, 1 hr
Weathering	ASTM D822 Weatherometer 350 hr	N/A	N/A
Elongation	ASTM D638	407-420%	250%
Elongation	ASTM D5147	Min 30%	Min 30%
Tensile Strength	ASTM D638 @ 75 °F	991-1680 psi	1550 psi
Tearing Resistance	ASTM D4073	91 lbf	148 lbf
Hardness (Shore D)	ASTM D2240	18 - 35	45
Hardness (Shore A)	ASTM D2240	65-87	96
Abrasion Resistance (1000 cycles)	ATSM D4060	N/A	N/A
Low-Temperature Crack Bridging	ASTM C1305	Passes	N/A
Taber Abrasion	ASTM C501	Passes	N/A
Peak Load @ 73 °F, avg.	ASTM D5147	>70 lbf/in	81 lbf/in
Puncture Resistance	ASTM D5602	> 56 lbs	> 56 lbs
Water Absorption	ASTM D570	< 0.1%	< 0.1%
Water Vapor Transmission	ASTM E96	0.03 perms	0.03 perms
Adhesion-in-Peel	ASTM C794	Concrete failure with primer	35 lbs
Self-Ignition Temperature	ASTM D1929	800 °F 427 °C	840 °F 449 °C
Smoke Density	ASTM D2843	4.1%	28.7%
Rate of Burn	ASTM D635	1.2 in/min	1.7 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.

TPPAO-DS/1123

Tremco Construction Products Group (CPG) brings together the Commercial Sealants & Waterproofing and Roofing & Building Maintenance divisions of Tremco CPG Inc.; Dryvit, Nudura and Willseal brands; Prebuck LLC; Tremco Barrier Solutions, Inc.; Weatherproofing Technologies, Inc.; Weatherproofing Technologies Canada, Inc.; and Pure Air Control Services, Inc.



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