



APPLICATION INSTRUCTIONS

TREMproof® PUMA

Waterproofing System –
Decorative Flashing Application

1. PRODUCT DESCRIPTION

- 1.1 TREMproof® PUMA Decorative Flashing System is a quick-cure, liquid-applied system based on PUMA technology. Components of the system can be initiated to cure within minutes, even in temperatures below freezing, and has tenacious adhesion to concrete and metal. TREMproof PUMA Decorative Flashing System is composed of a primer (Tremco PUMA Primer or TREMprime VB Plus Primer), a UV stable base coat (Tremco PUMA Flashing) and a top coat (Tremco PUMA TC). If the flashing will be under cover, or a connection with an adjacent product, please call Tremco Technical Service. All system components, except TREMprime VB Plus Primer, are cured using Tremco PUMA Initiator+.
- 1.2 Tremco PUMA Primer is a polymethyl-methacrylate (PMMA), two-component primer for porous and non-porous substrates.
- 1.3 TREMprimeVB Plus Primer is a two component, modified epoxy primer designed to seal concrete and reduce moisture vapor transmission on concrete slabs with elevated levels of moisture.
- 1.4 Tremco PUMA Flashing is a polyurethane-methacrylate (PUMA) base coat. Tremco PUMA Flashing 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 Flashing will prevent water migration between itself and the substrate.
- 1.5 Tremco PUMA TC is a polymethyl-methacrylate (PMMA) top coat. Interlaminary adhesion to Tremco PUMA Flashing is exceedingly strong. The top coat affords excellent abrasion resistance, UV stability and chemical resistance to complete the TREMproof PUMA planters system.
- 1.6 Tremco PUMA Initiator+ is a reactive catalyst in the form of a white powder used to cure all PUMA/PMMA resins.

2. BASIC USES

- 2.1 TREMproof PUMA Decorative Flashing System is a cold-applied flashing system designed to be used as a replacement for stainless steel flashing. Potential applications include curb-to-curtain wall, curb-to-facade, deck-to-door, balcony slider doors, exposed window flashings and more.

3. FEATURES & BENEFITS

- Field-tintable and custom color paks to match EIFS, brick or other building façade materials.
- Significant labor savings vs stainless steel flashing — no fabrication, bending, overlapping, soldering or open seams — and the ability to handle complex geometries with ease.
- System warranties available to include seamless connections to adjacent building envelope components for single-source, warranted, tested systems.
- PUMA technology delivers extreme durability and crack-bridging capabilities at critical connection points.
- 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.

4. AVAILABILITY

- 4.1 Immediately available from your local Tremco Sales Representative.

5. PACKAGING

- 5.1 Tremco PUMA Primer: 2-gal and 6-gal pails
- 5.2 TREMprime VB Plus Primer: Part A: 2.4-gal pails Part B: 1-gal pails
- 5.3 Tremco PUMA Flashing: 2-gal pails
- 5.4 Tremco PUMA TC: 6-gal pails
- 5.5 Tremco PUMA Initiator+: 10-lb in 3-gal pails, 25-lb in 6-gal pails, 25 75-g pouches in a box
- 5.6 Tremco PUMA Cleaner: 6-gal pails

6. COLORS

- 6.1 Tremco PUMA TC is available in Gray, Slate Gray, Charcoal, White, Beige, Tintable and *Decorative.
- 6.2 Universal Color Paks are available for use with Tremco PUMA TC Tintable.
- 6.3 *For use with decorative aggregate.

7. INSTALLATION

- 7.1 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.

8. 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.

9. WARRANTY

- 9.1 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 FLASHING	TREMCO PUMA TC
VOC Content	Method 310	0 g/L	0 g/L
% Solids (by weight)	ASTM D1353	100%	100%

TYPICAL PHYSICAL PROPERTIES			
Drying Time @ 75 °F, 50% RH	ASTM D1640	80 mil film, 1 hr	17 mil film, 1 hr
Weathering	ASTM D822 Weatherometer 350 hr	N/A	No effect
Elongation	ASTM D638	407-420%	130%
Elongation	ASTM D5147	Min 30%	Min 30%
Tensile Strength	ASTM D638 @ 75 °F	991 - 1680 psi	986 psi
Tearing Resistance	ASTM D4073	91 lbf	203 lbf
Hardness (Shore D)	ASTM D2240	18 - 35	55
Hardness (Shore A)	ASTM D2240	65-87	100
Abrasion Resistance (1000 cycles)	ATSM D4060	N/A	51 mg
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	238 lb/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	N/A
Self-Ignition Temperature	ASTM D1929	800 °F 427 °C	850 °F 454 °C
Smoke Density	ASTM D2843	4.1%	2.1%
Rate of Burn	ASTM D635	1.2 in/min	0.2 in/min

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

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

9.4 TPPDF-DS/0823

Tremco Construction Products Group (CPG) brings together Tremco CPG Inc. and its Dryvit and Nudura brands; Willseal; Prebuck LLC; Tremco Barrier Solutions, Inc.; Weatherproofing Technologies, Inc. and its Pure Air Control Services and Canam Building Envelope Specialists offerings; and Weatherproofing Technologies Canada, Inc.



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