

Tremco Roofing And Building Maintenance



AlphaGuard® PUMA

Tremco Roofing's AlphaGuard PUMA is a roofing system used to restore a variety of existing roof types and is also used as a new or existing roof replacement system. PUMA is a unique Polyurethane/Methyl methacrylate blend, exhibiting superior flexibility and elongation. PUMA is fully reinforced with either glass mat or polyester membrane. PUMA Top Coat provides an extremely bright white surface coat with high reflectivity and emissivity values. A 100% solids roofing system, PUMA is V.O.C. acceptable throughout the United States and Canada and is Class A fire rated by Underwriters Laboratories. Used as a roof restoration system, PUMA dramatically reduces the amount of roofing material being hauled to overstressed landfills, while it lowers the overall cost per square foot of roofing. PUMA is completely waterproof after 30 minutes, accepts foot traffic after two hours and is an excellent cold weather system, able to be installed down to -20°F. PUMA is also an very good flashing system because of its ease of application and fast set. AlphaGuard PUMA is another great fluid applied roofing option from Tremco, designed for outstanding performance in very difficult situations.



Mixing



Cleaning / Prep



Flashing



Pipe flashing

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AlphaGuard PUMA

FEATURES

- 100% solids
- Fast Cure
- Cold Weather
- PUMA Polymer
- Two Component
- UL Approved
- 96 SRI

BENEFITS

- VOC Compliant
No Shrinkage
- Waterproof after 30 minutes
- Can be applied throughout the year
- Flexibility, elongation and durability
- Fully dependable cure
- Fire rated for safety
- Very good reflectivity & emissivity

AlphaGuard PUMA System Physical Properties

PHYSICAL VALUE	TEST RESULT	TEST
Tensile Strength	177 lbf/in	ASTM D5147
Elongation	199% (Unreinforced) 40% (reinforced)	ASTM D5147 ASTM D5147
Tear Strength	178 lbf	ASTM D 5147
Hardness	93 Shore A	ASTM D2240
Low Temperature Flexibility	Pass @ -26°F	ASTM D7264
Vapor Transmission	0.23 perms	ASTM E96
Water Absorption	0.2 - 8 hours 0.8 - 24 hours	ASTM D570 ASTM D570
Static Puncture Resistance	56 lbf	ASTM D5602
Crack Bridging	Pass - 2mm	ASTM D5147
Abrasion Resistance	270 mg	ASTM D4060
Dimensional Stability	0.11	ASTM D5147
Hydrostatic resistance	413 psi	ASTM D751
VOC	0 g/L	ASTM D3960
SRI	96	ASTM D1980



Applying base coat



Sealing with base coat



Installing top coat



Cold-weather application



Heat tested



Elongation tested

LIMITATIONS:

- Do not apply when ambient temperatures are above 95°F
- Do not adhere to expanded or extruded polystyrene.
- Do not apply directly to tongue and groove decks, poured gypsum or gypsum board, lightweight concrete, structural lightweight concrete and cementitious wood fiber decks.
- Not for use over coal tar, graveled asphalt BUR, metal roof systems and silicone based coatings and sealants.

PACKAGING:

AlphaGuard PUMA Base Coat: 6 gallon Pail
AlphaGuard PUMA Top Coat: 6 gallon Pail
AlphaGuard PUMA Catalyst: Available in either 55 lbs. in a 6 gallon pail or 22 lbs. in a 2 gallon pail.

COLOR:

AlphaGuard PUMA Base Coat - Gray
AlphaGuard PUMA Top Coat - White
AlphaGuard PUMA Catalyst - White

POT LIFE:

10-15 minutes (77°F/50% RH)
Temperature dependent. Increasing temperature decreases pot-life.

STORAGE LIFE:

12 months from manufactured date.
Store in area sheltered from harsh weather conditions, between 60-80°F. Storage temperatures must not exceed 100°F. Do not store in direct sunlight.

APPLICATION:

a. Preparation: Surface must be clean, dry, solid and free of dirt, grease, oil, algae, and any other debris/contaminants.

Concrete surfaces must be shot-blasted to a an ICRI 3-6 surface profile.

Metal must be ground to a clean, bare, bright metal surface.

b. Mixing: Use a heavy duty power drill with Jiffy Mixer attachment. Cordless drills are not recommended and may not properly mix the materials.

AlphaGuard PUMA liquid resins must be mixed to achieve a uniform distribution and appearance of the product. Once properly mixed, AlphaGuard PUMA liquid resins can be poured off in smaller quantities into a second container. Add the appropriate amount of AlphaGuard PUMA Catalyst to the selected amount of liquid resin and mix thoroughly until powder catalyst is completely dissolved. Catalyze only the amount of product intended to be used within the expected pot life. The amount of AlphaGuard PUMA

Catalyst required is based on the amount of liquid resin used and the ambient temperature. Refer to the individual Product Data Pages or AlphaGuard PUMA Mixing Chart for proper mixing ratios.

c. Substrates:

AlphaGuard PUMA can be used to restore the following roof types:

- Smooth and granulated MB
- Smooth asphalt BUR
- Structural Concrete

COVERAGE RATES:**Smooth BUR / Smooth MB / Granulated MB:**

Base coat: 2.5 gallons (40 wet mils) per 100 sq.ft.

Install membrane

2nd base coat: 2.5 gallons (40 wet mils) per 100 sq.ft.

Top coat: 1.25 gallons (20 wet mils) per 100 sq. ft.

Structural Concrete:

107 Primer: 1 gallon (16 wet mils) per 100 sq. ft.

Base coat: 2.5 gallons (40 wet mils) per 100 sq.ft.

Install membrane

2nd base coat: 2.5 gallons (40 wet mils) per 100 sq.ft.

Top coat: 1.25 gallons (20 wet mils) per 100 sq. ft.

RESTORATION STEPS:

Perform required diagnostics:

Core cutting

Thermocore

Remove areas of wet insulation

Remove useless rooftop equipment

Clean roof surface with Rooftec or pressure washing

Make other repairs to flashings and roof

Install flashings

Install field of the roof system

Install walkways if specified

Issue Warranty

Plan next year's work or create 3-5 year roofing plan

CLEAN UP:

Before product sets up, clean tools with PUMA Cleaner.

PRECAUTION:

Use Tremco AlphaGuard PUMA with adequate ventilation.

Read all appropriate MSDS sheets. Take steps to prevent odors from entering buildings

AVAILABILITY AND COST:

Contact your local Tremco Roofing Representative for pricing and availability. For the name and number of your local Representative, call the Roofing Division at 800-852-6013 or visit the Find a Rep section on www.tremcoroofing.com.

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MAINTENANCE:

Your local Tremco Roofing Representative can provide you with effective maintenance procedures which may vary, depending upon specific conditions. Periodic inspections, early repairs and preventative maintenance are all part of a sound roof program.

GUARANTY/WARRANTY:

Tremco Inc. warrants AlphaGuard PUMA to be free of defects and to meet published physical properties when cured and tested according to ASTM and Tremco standards. Under this warranty, we will provide at no charge, AlphaGuard PUMA in standard packaging to replace any AlphaGuard PUMA proven to be defective when applied according to our written instructions, and in applications recommended by us as suitable for AlphaGuard PUMA. THIS IS BUYER'S SOLE AND EXCLUSIVE REMEDY.

All claims concerning product defects must be made in writing within (12) months of shipment. The absence of such claims in writing during this period will constitute a waiver of all claims with respect to such product.

This warranty shall be IN LIEU OF any other warranty, express or implied, including but not limited to, any implied warranty of MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

AlphaGuard PUMA can be used in a system configuration. Talk to your local Tremco Representative about system roof warranties.

TECHNICAL SERVICES:

Your local Tremco Representative, working with the Technical Service Staff, can help analyze conditions and needs to develop recommendations for special applications. The services of the Tremco Research Center, which has earned a unique reputation in weatherproofing technology, complement and extend the services of the Tremco Technical Service Staff.

STATEMENT OF POLICY:

Tremco takes responsibility for furnishing quality materials and for providing specifications and recommendations for their proper installation. As neither Tremco itself nor its Representatives practice architecture or engineering, Tremco offers no opinion on, and expressly disclaims any responsibility for the soundness of any structure on which its products may be applied. If questions arise as to the soundness of a structure or its ability to support a planned installation properly, the Owner should obtain opinions of competent structural engineers before proceeding. Tremco accepts no liability for any structural failure or for resultant damages, and no Tremco Representative is authorized to vary this disclaimer.



Helicopter pad resurfacing



Adheres to smooth roofs



Excellent concrete adhesion



Best long-term performance warranty available

Talk to your Tremco Rep about...

- ROOF DIAGNOSTICS
- CADD DRAWINGS
- RECOMMENDATIONS
- REPAIR
- RESTORATION
- REPLACEMENT
- BUDGETS
- SPECIFICATION ASSISTANCE
- JOB SITE INSPECTION
- WARRANTIES
- PLANNED ROOFING PROGRAMS
- MAINTENANCE SERVICES
- WTI GENERAL CONTRACTING



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