AlphaGuard® PUMA Top Coat

High performance, two-component, methyl methacrylate finishing resin

BENEFITS

PUMA Technology

 Unique technology typically provides higher elongation and crack bridging properties than comparable MMA/PMMA technology

Low Temperature Applications

• Product can be applied in freezing temperatures.

Catalyzed Cure

• Results in faster cure than one-component products

High Solids

• 100% Solids

Reflective Top Coat

- Lower Surface Temperatures
- Potential Energy Savings

Plant Root Resistance

• Highly durable system prevents damage caused by plant roots in vegetative roofing installations

VOC Compliant

• 0 g/L; Can be used anywhere (No VOC restrictions)

DESCRIPTION

AlphaGuard PUMA Top Coat is a high performance, two-component, UV resistant, methyl methacrylate waterproofing resin.

BASIC USES

The AlphaGuard PUMA system is ideal for restoration, repair and waterproofing of a variety of roofing systems and can be used as the primary roofing system in IRMA and vegetative roof assemblies. AlphaGuard PUMA can also be installed as the roofing system in direct to structural concrete applications. AlphaGuard PUMA can also be used as a liquid flashing membrane for approved new roofing systems.

PACKAGING

Available in 6 gallon (22.71 L) and 2 gallon (7.57 L) containers.

COLOR

White, Light Gray, Unpigmented

GRADE

Brush / Roller / Squeegee.

POT LIFE

10 - 15 minutes. *Pot life dependent on ambient, substrate, and product temperature and the amount of AlphaGuard PUMA Catalyst used.

STORAGE

12 months in unopened containers. Recommended storage conditions are indoors in a ventilated, dry area removed from heat, open flame, ignition sources, and direct sunlight. Storage temperatures should range from 60-70°F (15-21°C) and must not exceed 110°F (43°C).

On the job site, materials should remain on the pallet until use and be stored in a shaded, ventilated area. Materials should be covered with a light-colored, reflective tarp for protection against the elements. Allow for adequate air flow inside the pallets.

Shelf life could be effected if the product is not stored properly.

APPLICATION

Preparation: The surface of previously applied AlphaGuard PUMA BaseCoat must be clean, dry, solid, and free of dirt, grease, oil, algae, and other debris prior to application of the AlphaGuard PUMA Top Coat.

Repairs: If AlphaGuard PUMA is being installed over an existing roof system, all appropriate repairs should be made prior to applying the AlphaGuard PUMA system. Allow suggested cure time of repairs before application.

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 Top Coat must be mixed to achieve a uniform distribution and appearance of the product. Once properly mixed, AlphaGuard PUMA Top Coat can be poured off in smaller quantities into a second container. Add the appropriate amount of

APPLICATIONCONTINUED

MIXING CHART

ACCEPTABLE ROOF SURFACES/SUBSTRATES

COVERAGE RATES

TEMPERATURE RECOMMENDATIONS

CLEAN UP

LIMITATIONS

AlphaGuard® PUMA Top Coat

AlphaGuard PUMA Catalyst to the selected amount of top coat and mix thoroughly until powder catalyst is completely dissolved. Catalyze only the amount of top coat intended to be used within the expected pot life. The amount of AlphaGuard PUMA Catalyst required is based on the amount of top coat used and the ambient temperature (Refer to the mixing chart for proper mixing ratios).

Application: Apply AlphaGuard PUMA Top Coat over cured AlphaGuard PUMA Base Coat.

Optional Non-Skid Coat w/ Embedded and Backrolled Aggregate:

- Additional Layer of Top Coat: Apply at 1 1½ gal/SQ (16 24 wet mils)
- Approved Aggregates:
- Silica Sand (20-40 mesh) Coverage: 20-30 lbs./100 sq. ft. No. 11 Roofing Granule Coverage: 10-15 lbs./100 sq. ft.

Unpigmented Top Coat- Universal Color Paks must be added for desired color and properly mixed prior to pouring off or catalyzing the product. For best results, add 3 Universal Color Paks to each 6 gallon pail of Unpigmented Top Coat and mix to achieve a uniform distribution and appearance.

AG PUMA	ALPHAGUARD PUMA CATALYST AMOUNTS BY TEMPERATURE RANGES													
TOP COAT AMOUNT	70-95°F (21-35°C) 2% Catalyst oz lbs g		60-70°F (15-21°C) 4% Catalyst oz lbs g		40-60°F (5-15°C) 8% Catalyst oz lbs g		32-40°F (0-5°C) 12% Catalyst oz lbs g		< 32°F (< oz lbs	< 0°C) g				
½ gal (4.56 lbs) 1.89 L (2.06 kg)	2	0.09	41	3	0.18	82	7	0.36	165	10	0.54	247	Contact Tr	amco
1 gal (9.12 lbs) 3.78 L (4.13 kg)	3	0.18	83	7	0.36	165	13	0.73	330	20	1.09	496	Product G	
3 gal (27.36 lbs) 11.34 L(12.41 kg)	10	0.55	248	20	1.09	496	40	2.19	993	60	3.28	1,489	for inform	'
6 gal (54.72 lbs)	18	1.09	496	35	2.19	993	70	4.38	1,986	105	6.57	2,978	ioi iiiioiiiiatioii.	

^{*} AlphaGuard PUMA Catalyst amounts listed on this chart are minimum required quantities.

Smooth BUR Gravel BUR	Concrete	Foam Modfied Bitumen Metal	Single Ply	SPUF	Walls
			*		

*Field adhesion test and Product/Technical Management approval required

Top Coat: 1.25 gals / SQ (20 wet mils) (0.5L/m²) **30 Year Warranty:** 2 gals / SQ (32 wet mils) (0.8L/m²)

Tremco Plain and Simple Warranty: 2.25 gals / SQ (36 wet mils) (0.9L/m²)

Apply when ambient temperature is -20°F - 95°F (-28°C - 35°C) Do not apply when precipitation, fog, or dew is imminent prior to cure of the product.

Clean tools immediately after use with AlphaGuard PUMA Cleaner.

 Not for use over expanded polystyrene, extruded polystyrene, plywood, tongue and groove decks, wood decks, poured in place gypsum, lightweight insulating concrete, lightweight structural concrete, cementitious wood fiber decks, coal tar pitch, gravel surfaced BUR, corrugated metal roof systems, and SPUF roofing substrates.

PHYSICAL PROPERTIES

AlphaGuard® PUMA Top Coat

PHYSICAL PROPERTY	TEST METHOD	TYPICAL VALUE
Peak Load @ 73°F, lbf/in.	ASTM D5147	105 (MD) 110 (XMD)
Elongation, % @73°F	ASTM D5147	31% (R-MD), 43% (R-XMD)
Peak Load @ 73°F, post heat conditioning, lbf/in.	ASTM D5147	146 (MD) 131 (XMD)
Elongation %, @ 73°F, post heat conditioning	ASTM D5147	36% (MD) 35% (XMD)
Peak Load @ 73°F, post-accelerated weathering, lbf/in.	ASTM D5147	145 (MD) 152 (XMD)
Elongation %, @ 73°F, post-accelerated weathering	ASTM D5147	33% (MD) 42% (XMD)
Tensile Strength	ASTM D412	1062 psi
Tear Resistance, lbf.	ASTM D5147	216 (MD) 208 (XMD)
Hardness	ASTM D2240	88 Shore A
Dimensional Stability, %	ASTM D5147	0.00%
Water Vapor Transmission, perms	ASTM E96(A)	0.3 perms
Water Absorption, % (@212°F/100°C)	ASTM D570	0.01%
Static Puncture Resistance, lbf	ASTM D5602	Pass 56
Low Temperature Deflection, °F	ASTM D7264	Pass -30 (MD & XMD)
Self-ignition, °F	ASTM D1929	740
Rate of Burning, in/min	ASTM D635	0.9
VOC	ASTM D3960	0 g/L
SRI (White Top Coat)	ASTM C1549	98
Thermal Emittance	ASTM C1549	0.89
Solar Reflectance	ASTM C1549	0.79

CODES & APPROVALS

Florida Building Code



		Initial	Rapid Ratings*	Weathered			
2006	Solar Reflectance	0.79	0.70	Pending			
	Thermal Emittance	0.89	0.89	Pending			
RATING COUNCIL ®	Rated Product ID		0612	2-0031			
RAPID RATINGS	Licensed Manufactur Classification	Production Line					
8/DDC Don't Dation: There are interior bloomers and unless that simulate worthead value. There was no							

*CREC Royid Ratings: These are interin laboratory-aged values that simulate weathered values. These values will be replaced by the measured three-poor aged values upon completion of the weathering process. Cool Roof Roting Council ratings are determined for a food set of conditions, and may not be appropriate for determining seasonal energy performance. The actual effects of solar reflectance and thermal emissions on localing performance may vary.

Manufacturer of product stipulates that these ratings were determined in accordance with the applicable Cool Ro Rating Council procedures.

AlphaGuard® PUMA Top Coat

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

Users must read container labels and Safety Data Sheets for health and safety precautions prior to use.

Your local Tremco Roofing sales representative, working with the Technical Service Staff, can help analyze conditions and needs to develop recommendations for special applications.

MAINTENANCE

PRECAUTIONS

TECHNICAL SUPPORT



Roofing & Building Maintenance

www.tremcoroofing.com 3735 Green Road Beachwood, Ohio 44122 1.800.852.6013

50 Beth Nealson Drive Toronto, Ontario M4H 1M6 1.800.668.9879 Tremco Roofing & Building Maintenance is a part of the Tremco Construction Products Group

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