

AlphaGuard™ PUMA Quick Flash

Two-Component, modified polyurethane methacrylate flashing grade resin.

FEATURES

PUMA Technology

Low Temperature Applications

Catalyzed Cure

High Solids

Plant Root Resistance

VOC Compliant

BENEFITS

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

- Product can be applied in freezing temperatures.

- Results in faster cure than one-component products

- 100% Solids

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

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

DESCRIPTION

AlphaGuard PUMA Quick Flash is a pre-formulated high elastomeric, two-component, modified polyurethane methacrylate flashing grade resin.

BASIC USES

AlphaGuard PUMA Quick Flash is used in conjunction with the AlphaGuard PUMA system to provide a flexible, waterproof membrane for flashing applications.

PACKAGING

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

COLOR

Gray

GRADE

Brush / Roller

POT LIFE

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

STORAGE LIFE

12 months shelf life in unopened containers when properly stored.

DO NOT FREEZE

Recommended storage is 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 drop below 32°F (0°C) or 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 affected if the product is not stored properly.

APPLICATION

Surface Preparation: Surface must be clean, dry, in sound condition, and free of dirt, debris, and contaminants. Rust must be abraded until it no longer exhibits flaking or chalking. Existing wet roofing components must be identified and replaced. Deficient areas of existing system must be repaired. All repairs should be made with like materials matching the existing components and allowed to properly cure prior to application of liquid-applied products.

Allow new concrete to cure for a minimum of 28 days and until moisture, RH, and compressive strength values reach an appropriate level. Concrete surfaces must be shot-blasted to a an ICRI 3-6 surface profile.

Metal surfaces and coated metal including fluoropolymer/PVDF coatings such as Kynar® (Registered trademark of Arkema Inc.) and Hylar® (Registered trademark of Solvay Solexis Inc.) must be ground to clean bright metal free of rust and primed prior to application.

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APPLICATION CONTINUED

If the surface has a pre-existing coating, paint, or sealant, please contact Tremco for adhesion/compatibility testing and surface preparation recommendations.

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 Quick Flash must be mixed to achieve a uniform distribution and appearance of the product. Once properly mixed, AlphaGuard PUMA Quick Flash can be poured off in smaller quantities into a second container. Add the appropriate amount of AlphaGuard FC or PUMA Catalyst to the selected amount of AlphaGuard Quick Flash and mix thoroughly for a minimum of 2 minutes until powder catalyst is completely dissolved. Catalyze only the amount of AlphaGuard Quick Flash intended to be used within the expected pot life. The amount of AlphaGuard FC or PUMA Catalyst required is based on the amount of Quick Flash used and the ambient weather conditions (Refer to the mixing chart for proper mixing ratios.).

Install product using one of the approved application methods evenly at the recommended coverage rate. Use wet mil gauges to monitor coverage rates throughout application.

MIXING CHART

AG PUMA QUICK FLASH AMOUNT	ALPHAGUARD FC CATALYST AMOUNTS BY TEMPERATURE																			
	70-95°F (21-35°C) 1% Catalyst				60-70°F (15-21°C) 2% Catalyst				40-60°F (5-15°C) 4% Catalyst				32-40°F (0-5°C) 6% Catalyst				< 32°F (< 0°C)			
	oz	lbs	g	100g bags	oz	lbs	g	100g bags	oz	lbs	g	100g bags	oz	lbs	g	100g bags	oz	lbs	g	100g bags
1 gal (11.28 lbs) 3.78 L (5.11 kg)	2	0.11	52	1/2 bag	4	0.23	104	1 bag	7	0.46	207	2 bags	11	0.69	311	3.25 bags	Contact Tremco Product Group			
3 gal (33.84 lbs) 11.34 L (15.35 kg)	5	0.34	156	1.5 bags	11	0.69	311	3.25 bags	22	1.37	622	6.25 bags	33	2.06	933	9.25 bags				
6 gal (67.68 lbs) 22.68 L (300 kg)	11	0.69	311	3.25 bags	22	1.37	622	6.25 bags	44	2.74	1,244	12.5 bags	66	4.11	1,866	18.75 bags	for Information			

* AlphaGuard FC Catalyst amounts listed on this chart are minimum required quantities.

AG PUMA QUICK FLASH AMOUNT	ALPHAGUARD PUMA CATALYST AMOUNTS BY TEMPERATURE RANGES														
	70-95°F (21-35°C) 2% Catalyst			60-70°F (15-21°C) 4% Catalyst			40-60°F (5-15°C) 8% Catalyst			32-40°F (0-5°C) 12% Catalyst			< 32°F (< 0°C)		
	oz	lbs	g	oz	lbs	g	oz	lbs	g	oz	lbs	g	oz	lbs	g
½ gal (5.71 lbs) 1.89 L (2.59 kg)	2	0.11	52	4	0.23	104	8	0.46	207	12	0.69	311	Contact Tremco Product Group for information.		
1 gal (11.43 lbs) 3.78 L (5.18 kg)	4	0.23	104	8	0.46	207	17	0.91	414	25	1.37	622			
3 gal (34.29 lbs) 11.34 L (15.55 kg)	12	0.69	311	25	1.37	622	50	2.74	1,244	75	4.11	1,866			
6 gal (68.58 lbs) 22.68 L (31.10 kg)	22	1.37	622	44	2.74	1,244	88	5.49	2,488	132	8.23	3,732			

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

ACCEPTABLE ROOF SURFACES/SUBSTRATES

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

* Field adhesion test required.

Additional Approved Substrates for Flashings/Details:

- Metal
- Plywood (small wooden details)

Contact Product/Technical prior to application.

5 gals / 100 sq. ft. (80 mils) in two coats with fabric reinforcement.

Min Ambient: -20°F (-28°C)

Max Ambient: 95°F (35°C)

- Minimum temperatures must be rising following application
- Do not apply when dew point is within 5°F (2.7°C) of ambient temperatures
- Do not apply when precipitation, fog or dew is imminent prior to cure of the product

Skin Time: 30-45 min. @ 77°F (25°C) / 50% RH

Recoat Time: 1 hour @ 77°F (25°C) / 50% RH

Note: Cure times can be effected by a number of weather and jobsite conditions including but not limited to exposure to sunlight and wind, humidity, precipitation, and temperature.

Clean tools immediately after use with AlphaGuard PUMA Cleaner.

COVERAGE RATE

TEMPERATURE RECOMMENDATIONS

CURE TIMES

CLEAN UP

LIMITATIONS

PHYSICAL PROPERTIES

AlphaGuard™ PUMA Quick Flash

Not recommended for use over the following:

Roof Decks: Cementitious wood fiber, metal, poured-in-place gypsum, structural lightweight or lightweight insulating concrete, and wood decks (includes plywood, tongue and groove, etc.).

Products/Systems: Asphalt-based or coal tar gravel surfaced BUR systems, clay tile, corrugated or standing seam metal roof systems, expanded or extruded polystyrene insulation, fluoropolymer finished metal, shingles, silicone-based products, and tar-based products.

- Not for use under continuous immersion.
- Do not apply to structural concrete deck without using a primer.
- Do not thin

PHYSICAL PROPERTY	TEST METHOD	TYPICAL VALUE
Peak Load @ 73°F, lbf/in.	ASTM D5147	69 (NR) *BC Only*
Elongation, % @73°F	ASTM D5147	282% (NR) *BC Only*
Tensile Strength	ASTM D412	1344 psi *BC Only*
Peak Load @ 73°F, lbf/in.	ASTM D5147	107 (MD) 115 (XMD)
Elongation, % @73°F	ASTM D5147	30% (R-MD), 45% (R-XMD)
Peak Load @ 73°F, post heat conditioning, lbf/in.	ASTM D5147	126 (MD) 113 (XMD)
Elongation %, @ 73°F, post heat conditioning	ASTM D5147	31% (MD) 43% (XMD)
Peak Load @ 73°F, post-accelerated weathering, lbf/in.	ASTM D5147	124 (MD) 111 (XMD)
Elongation %, @ 73°F, post-accelerated weathering	ASTM D5147	36% (MD) 41% (XMD)
Tear Resistance, lbf.	ASTM D5147	215 (MD) 200 (XMD)
Hardness	ASTM D2240	85 Shore A
Dimensional Stability, %	ASTM D5147	0.00%
Water Vapor Transmission, perms	ASTM E96(A)	0.3 perms
Water Absorbtion, % (@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)
VOC	ASTM D3960	0 g/L

MAINTENANCE

PRECAUTIONS

TECHNICAL SUPPORT

AlphaGuard™ PUMA Quick Flash

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.



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