

AlphaGuard™ FC LO - Field

High performance, two-component, low odor, modified polyurethane methacrylate resin

FEATURES

PUMA Technology
Fast Cure
Low Odor
High Solids
Highly Reflective (White)
VOC Compliant

BENEFITS

Unique technology typically provides higher elongation and crack bridging properties than comparable PMMA technology
Catalyzed cure is waterproof in as little as 30 minutes and is more reliable than one-component products
Perfect option for odor sensitive accounts/facilities
100% solids
Lowers rooftop temperatures resulting in less stress and potential energy savings
Can be used anywhere (No VOC restriction)

DESCRIPTION

AlphaGuard FC LO - Field is a high performance, two-component, low odor, modified polyurethane methacrylate waterproofing resin.

BASIC USES

AlphaGuard FC LO - Field can be used in a variety of applications, including restoration or repair of approved roofing substrates, AlphaGuard PLUS system roof assemblies, application to structural concrete roof decks, and in IRMA/PRM and vegetative roof system assemblies. The product is installed in a fully reinforced application utilizing AlphaGuard Glass Mat or Permafab reinforcements.

PACKAGING

5 gal (18.9 L) filled in 6 gal pail

COLOR

White

GRADE

Brush, Roller, Squeegee & Backroll

POT LIFE

10-20 minutes

**Pot life dependent on ambient, substrate, and product temperature and the amount of AlphaGuard FC Catalyst used.*

STORAGE

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

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.

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APPLICATION CONTINUED

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.

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 FC LO - Field must be mixed to achieve a uniform distribution and appearance of the product. Once properly mixed, AlphaGuard FC LO - Field can be poured off in smaller quantities into a second container. Measure by weight and add the appropriate amount of AlphaGuard FC Catalyst to the selected amount of AlphaGuard FC LO - Field and mix thoroughly until powder catalyst is completely dissolved. Catalyze only the amount of liquid resin intended to be used within the expected pot life. The amount of AlphaGuard FC Catalyst required is based on the amount of liquid resin used and the ambient temperature (Refer to the mixing chart for proper mixing ratios).

Priming: Consult Tremco's Product & Technical Group for primer recommendations on concrete and single-ply substrates.

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

Fully-Reinforced Application: Apply base layer of AlphaGuard FC LO - Field at the recommended coverage rate. Immediately embed AlphaGuard Glass Mat or Permafab into wet AlphaGuard FC LO - Field using a brush or roller until reinforcement is fully saturated and is free of voids, wrinkles, air pockets, standing fibers, etc. Immediately apply a top layer of AlphaGuard FC LO - Field in a wet-on-wet application over the properly embedded reinforcement at the recommended coverage rate. In overlap areas ensure AlphaGuard FC LO - Field is present on top of the embedded reinforcement, then overlap the next run of reinforcement with a minimum 3" (76 mm) overlap at side laps and a minimum of 6" (152 mm) at end laps. Do not allow foot traffic on the applied product during application or until product has properly cured.

ACCEPTABLE ROOF SURFACES

BUR-Gravel	BUR-Smooth	Concrete	MB-Granule	MB-SBS Smooth	Metal	Metal Fluoropolymer	Single Ply	SPUF
	◆	◆	◆	◆			◆*	

*Requires in-field adhesion test. Contact Tremco's Product & Technical Dept. for instructions

MIXING CHART

ALPHAGUARD FC LO - FIELD AMOUNT	ALPHAGUARD FC CATALYST AMOUNTS BY TEMPERATURE (BY WEIGHT) - WINTER GRADE															
	30-40° F (° C)				40-50° F (° C)				50-60° F (° C)				60-70° F (° C)			
	8% Catalyst				6% Catalyst				4% Catalyst				2% Catalyst			
	oz	lbs	g	100g Bags	oz	lbs	g	100g Bags	oz	lbs	g	100g Bags	oz	lbs	g	100g Bags
1 gal (10.7 lbs)	14	0.86	388	4	11	0.64	291	3	7	0.43	194	2	4	0.21	97	1
2.5 gal (26.74 lbs)	35	2.14	971	10	26	1.61	728	8	18	1.07	485	5	9	0.54	243	3
5 gal (53.5 lbs)	69	4.28	1,941	20	52	3.21	1,456	15	35	2.14	971	10	18	1.07	485	5

ALPHAGUARD FC LO - FIELD AMOUNT	ALPHAGUARD FC CATALYST AMOUNTS BY TEMPERATURE (BY WEIGHT) - SUMMER GRADE															
	50-60° F (10-15.5° C)				60-70° F (15.5-21.1° C)				70-80° F (21.1-26.6° C)				80-90° F (26.6-32.2° C)			
	8% Catalyst				6% Catalyst				4% Catalyst				2% Catalyst			
	oz	lbs	g	100g Bags	oz	lbs	g	100g Bags	oz	lbs	g	100g Bags	oz	lbs	g	100g Bags
1 gal (10.7 lbs)	14	0.86	388	4	11	0.64	291	3	7	0.43	194	2	4	0.21	97	1
2.5 gal (26.74 lbs)	35	2.14	971	10	26	1.61	728	8	18	1.07	485	5	9	0.54	243	3
5 gal (53.5 lbs)	69	4.28	1,941	20	52	3.21	1,456	15	35	2.14	971	10	18	1.07	485	5

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COVERAGE RATES

Smooth BUR/MB, Single-Ply, Structural Concrete Substrates:

Fully-Reinforced Application:

Base Layer: 3 gals / 100 sq. ft. (1.2 L/m²) (48 wet mils)

Top Layer (Standard Warranty): 3 gals / 100 sq. ft. (1.2 L/m²) (48 wet mils)

Top Layer (Extended Warranty): 3.5 gals / 100 sq. ft. (1.4 L/m²) (56 wet mils)

Granule MB Substrates:

Fully-Reinforced Application:

Base Layer: 3.5 gals / 100 sq. ft. (1.4 L/m²) (56 wet mils)

Top Layer (Standard Warranty): 3 gals / 100 sq. ft. (1 L/m²) (40 wet mils)

Top Layer (Extended Warranty): 3.5 gals / 100 sq. ft. (1.4 L/m²) (56 wet mils)

Note: Coverage rates are listed at minimum recommended rates. The application surface can affect the necessary coverage rate.

Min Ambient: 50°F (10°C)

Max Ambient: 95°F (35°C)

Min Substrate: 50°F (10°C)

Max Substrate: 135°F (57.2°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
- Do not apply when temperatures could fall below 32°F (0°C) within 24 hours of application

Skin Time: 25 mins @ 77°F (25°C) / 50% RH

Recoat Time: 45 mins - 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 or Acetone.

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 tarbased products.

- Not for use under continuous immersion.

TEMPERATURE/WEATHER RECOMMENDATIONS

CURE TIMES

CLEAN UP

LIMITATIONS

PHYSICAL PROPERTIES

PHYSICAL PROPERTY	TEST METHOD	VALUE
Abrasion Resistance	ASTM D4060	419 mg
Post Accelerated Weathering	ASTM G154	(5,000 hrs)
Pass Breaking Strength	ASTM D751	MD:350 lbf/in XD:269 lbf/in
Dynamic Puncture Resistance	ASTM D5635	7.5 J
Pass Elongation	ASTM D412	XD:48% XMD:45%
Peak Load	ASTM D5147	MD:170 lbf/in XMD:134 lbf/in
Tensile Strength	ASTM D412	XD:1,338 psi XMD:920 psi
Water Vapor Transmission	ASTM E96	0.205 grains/h-ft ²

**All Physical Property testing of the coating utilized AlphaGuard FC LO Field Grade with Permafab MAX reinforcement.*

AlphaGuard™ FC LO - Field

CODES & APPROVALS

MAINTENANCE

PRECAUTIONS

TECHNICAL SUPPORT



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.

CRRC COOL ROOFING RATING COUNCIL RAPID RATINGS	Rated Product ID #: 0612-0380	
	Smooth Initial / Aged	Rough Initial / Aged
Solar Reflectance	0.84 / 0.65*	Not Rated
Thermal Emittance	0.92 / 0.91*	Not Rated

The ratings above are subject to CRRC rating program conditions, requirements and limitations. Visit coolroof.org for important information and disclaimers about CRRC rating requirements and limitations. For the purposes of a CRRC rating, a rough substrate is defined as a surface that is equally coarse or coarser than a new (i.e., unweathered) #11 granulated modified bitumen sheet.

*CRRC Rapid Ratings: Interim laboratory-aged values that simulate naturally-aged values and will be replaced by the measured three-year naturally-aged values upon completion of the weathering process.



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