AlphaGuard™ MTS Top Coat

High Performance, One-Part, Moisture Triggered, Polyurethane Top Coat

FEATURES	BENEFITS
Moisture Triggered Cure	• Uniform cure • Resists foaming, blisters & pinholes • Resists wash off
High Solids Content	• Yields more dry waterproofing than lower solids products
Highly Reflective	• Lowers rooftop temperatures resulting in less stress and potential energy savings • CRRC Listed
Single Component	• No mixing of multiple components • No extra labor steps • No pot life limitations
Low Odor	• Perfect option for odor sensitive accounts/facilities
Low VOC	• Meets all VOC regulation limits
Versatile	• Suitable for use over many substrates/roof types

DESCRIPTION

AlphaGuard MTS Top Coat is a one-part, moisture triggered, polyurethane liquid applied product.

BASIC USES

The AlphaGuard MTS Top Coat can be used in a variety of applications, including restoration or repair of approved existing roofing substrates, AlphaGuard PLUS system roof assemblies, application to structural concrete roof decks, and in IRMA/PRM and vegetative roof system assemblies. AlphaGuard MTS Top Coat is used as a surfacing over fully-reinforced AlphaGuard MT/MTS Base Coat.

PACKAGING

5 gal (18.9 L) pails
2 gal (7.5 L) pails

COLOR

White

GRADE

Brush, Roller, Spray, Squeegee & Backroll

STORAGE

9 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.

Storage life could be affected if the product is not stored properly.

APPLICATION

Surface Preparation: AlphaGuard MT/MTS Base Coat or Top Coat surface must be cured, clean, dry, in sound condition, and free of dirt, debris, and contaminants prior to application.

Mixing: Mechanical mixing is typically not necessary. Ensure product is consistent in appearance and viscosity. Do not thin.

Priming: AlphaGuard MT/MTS Base and Top Coats should be top-coated within 72 hours of application. If cured base or top coat is exposed for longer than 72 hours, an application of Geogard Primer will be required to promote adhesion between coats. Review the recommended primer product data sheet for specific product and application information.

Installation: 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.

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APPLICATION CONTINUED

Non-Skid Application: Install an additional layer of top coat in white or chosen color at 1-1½ gal / 100 sq. ft. (16-24 wet mils) (0.4-0.6 L/m²) and immediately broadcast and backroll an approved non-skid media. Color striping can be installed in 3-4" wide areas along the perimeter of the walkway area at a coverage rate of 1-1½ gal / 100 sq. ft. (16-24 wet mils) (0.4-0.6 L/m²) to provide identification of the areas on the roof.

Approved Non-Skid Media:
- Silica Sand (20-40 mesh) - Coverage: 20-30 lbs. / 100 sq. ft.
- No. 11 Roofing Granule - Coverage: 10-15 lbs. / 100 sq. ft.

ACCEPTABLE ROOF SURFACES

BUR Smooth	Concrete	MB Granule	MB Smooth	Single Ply
◆	◆	◆	◆	◆

COVERAGE RATES

Top Coat: 2 gals / 100 sq. ft. (0.8 L/m²) (32 wet mils)
Tremco Plain and Simple/Extended Warranty: 3 gals / 100 sq. ft. (1.2 L/m²) (48 wet mils)
Non-Skid Coat: 1-1½ gals / 100 sq. ft. (0.4 - 0.6 L/m²) (16-24 wet mils)

Note: Coverage rates are listed at minimum recommended rates. The application surface can affect the necessary coverage rate. Color top coats may require higher coverage rates or additional coats to provide adequate hiding and consistent appearance.

TEMPERATURE/WEATHER RECOMMENDATIONS

Min Ambient: 50°F (10°C)
Max Ambient: 110°F (43.3°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

CURE TIMES

Skin Time:
1 hour @ 85°F (29°C) / 70% RH
2-3 hours @ 68°F (20°C) / 70% RH
4-6 hours @ 50°F (10°C) / 70% RH

Over-Coat Time:
2-4 hours @ 85°F (29°C) / 70% RH
6-10 hours @ 68°F (20°C) / 70% RH
16-18 hours @ 50°F (10°C) / 70% 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.

SPRAY EQUIPMENT RECOMMENDATIONS

GENERAL GUIDELINES
Component: Single-Component
Pressure: 4,000 - 5,500 psi minimum
Tip Size: .039 - .049
Filters: Remove
Hose Type: High Pressure
WHIP: 1/4" High Pressure
Product Temp: 100 - 110°F (37 - 43°C)
- Must use heavy duty or industrial grade spray tips
- Properly clean and maintain spray equipment before, during, and after use
- Equipment should be properly grounded during use

CLEAN UP

Before the product cures, clean surfaces and equipment with isopropyl alcohol, mineral spirits, or xylene..
Spray equipment can be flushed/cleaned using MEK or xylene.

LIMITATIONS

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.).

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LIMITATIONS
CONTINUED

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.

PHYSICAL PROPERTIE

PROPERTY	TEST METHOD	TYPICAL VALUE
Abrasion Resistance	ASTM D4060	37 mg
Accelerated Weathering (4,500 hrs)	ASTM G154	Pass
Breaking Strength	ASTM D751	244 lbf/in
Crack Spanning	ASTM C1305	Pass - 2 mm / 0.08 in
Dimensional Stability	ASTM D1204	0%
Dynamic Puncture Resistance	ASTM D5635	50 J
Elongation	ASTM D412	250%
Flexibility	ASTM D522	Pass @ -40°F
Indentation Hardness	ASTM D2240	77 Shore A
Low Temperature Flexibility	ASTM D5147	Pass @ -50°F
Peak Load	ASTM D5147	447 lbf/in
Permeance	ASTM E96	0.021 perm-in
Static Puncture Resistance	ASTM D5602	95 lbf
Tear Strength	ASTM D751	215 lbf
Tensile Strength	ASTM D412	1,843 psi
Water Absorption	ASTM D95	0.1%
Water Vapor Transmission	ASTM E96	16 g/m² per day
Volume Solids	ASTM D2697	87-89%
Weight Solids	ASTM D1644	88-90%
VOC		< 50 g/L

AlphaGuard MTS System Testing

CODES & APPROVALS

Florida Building Code

FM APPROVED

CLASSIFIED UL

CRRC COOL ROOF RATING COUNCIL

RAPID RATINGS

	Initial	Rapid Ratings*	Weathered
Solar Reflectance	0.83	0.82	Pending
Thermal Emittance	0.9	0.9	Pending

Rated Product ID 0612-0025
Licensed Manufacturer ID 0612
Classification Production Line

*CRRC Rapid Ratings: These are interim laboratory-aged values that simulate weathered values. These values will be replaced by the measured three-year aged values upon completion of the weathering process.

Cool Roof Rating Council ratings are determined for a fixed set of conditions, and may not be appropriate for determining seasonal energy performance. The actual effects of solar reflectance and thermal emittance on building performance may vary.

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

MAINTENANCE

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 preventative maintenance are all part of a sound roof program.

PRECAUTIONS

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

TECHNICAL SUPPORT

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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