

AlphaGuard[®] MTS Top Coat



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

FEATURES

Moisture Triggered Cure

High Solids Content

Highly Reflective

Single Component

Low Odor

Low VOC

Versatile

BENEFITS

• Uniform cure

• Resists foaming, blisters & pinholes

• Resists wash off

• Yields more dry waterproofing than lower solids products

• Lower surface temperatures reduce roof stress and can lower energy costs

• CRRC Listed

• No mixing of multiple components

• Perfect option for odor sensitive accounts/facilities

• Meets all VOC regulation limits

• Suitable for use over many substrates/roof types

DESCRIPTION:

The AlphaGuard MTS Top Coat is a one-part, moisture triggered, polyurethane roof coating.

BASIC USES:

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

PACKAGING:

5 gallon (18.9 L) containers

COLOR:

White, Colors - Standard and Custom

GRADE:

Brush / Roller / Squeegee / Spray

STORAGE LIFE:

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:

Preparation: AlphaGuard MTS Base Coat must be clean, dry, solid, and free of dirt, grease, oil, algae, and other debris. AlphaGuard MTS Base Coat left exposed for 72 hours or greater must be primed with Geogard Primer.

Mixing: No mixing is necessary before use.

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

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ACCEPTABLE ROOF SURFACES/ SUBSTRATES:	<table border="1"> <tr> <td>Smooth BUR</td> <td>Gravel BUR</td> <td>Concrete</td> <td>Modified Bitumen</td> <td>Metal</td> <td>Single Ply</td> <td>SPUF</td> <td>Walls</td> </tr> <tr> <td>●</td> <td></td> <td>●</td> <td>●</td> <td></td> <td>●</td> <td></td> <td></td> </tr> </table>	Smooth BUR	Gravel BUR	Concrete	Modified Bitumen	Metal	Single Ply	SPUF	Walls	●		●	●		●																																																													
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COVERAGE RATE:	<p>Top coat: 2 gals/SQ (32 wet mils) Tremco Plain and Simple Warranty: 3 gals/SQ (48 wet mils) Non-Skid Coat: 1-1/4 gals/SQ (20 wet mils)</p>																																																																											
LIMITATIONS:	<ul style="list-style-type: none"> Do not apply when ambient temperatures are below 50°F (10°C) Do not apply when precipitation is imminent. Do not apply when dew point is within 5°F of ambient temperatures Do not adhere to expanded polystyrene or extruded polystyrene. Do not apply directly to plywood, tongue and groove decks, wood decks, poured in place gypsum, lightweight insulating concrete decks, structural lightweight concrete and cementitious wood fiber decks. Not for use over coal tar pitch, gravel BUR, corrugated metal roof systems or silicone-based coatings and sealants. Do not apply to structural concrete deck without using a primer. 																																																																											
CLEAN UP:	<p>Before the product cures, clean surfaces and equipment with mineral spirits or xylene.</p>																																																																											
PRECAUTIONS:	<p>Use Tremco AlphaGuard MTS System Coatings with adequate ventilation. Users must read container labels and Material Safety Data Sheets for health and safety precautions prior to use.</p>																																																																											
PHYSICAL PROPERTIES:	<table border="1"> <thead> <tr> <th>Physical Property</th> <th>Test Method</th> <th>Typical Value</th> </tr> </thead> <tbody> <tr><td>Tensile Strength</td><td>ASTM D412</td><td>1,435 psi**</td></tr> <tr><td>Elongation</td><td>ASTM D5147</td><td>351%**</td></tr> <tr><td>Flexibility - 1/8" Mandrel Bend</td><td>ASTM D522</td><td>Pass</td></tr> <tr><td>Tear Resistance</td><td>ASTM D624</td><td>242 lbf/in*</td></tr> <tr><td>Peak Load</td><td>ASTM D5147</td><td>447 lbf/in*</td></tr> <tr><td>Breaking Strength</td><td>ASTM D751</td><td>244 lbf/in*</td></tr> <tr><td>Hardness</td><td>ASTM D2240</td><td>85 Shore A**</td></tr> <tr><td>Dynamic Puncture Resistance</td><td>ASTM D5635</td><td>50 J*</td></tr> <tr><td>Static Puncture Resistance</td><td>ASTM D5602</td><td>95 lbf*</td></tr> <tr><td>Water Absorption</td><td>ASTM D95</td><td>0.1%*</td></tr> <tr><td>Permeability</td><td>ASTM E96</td><td>0.021 perm-inch</td></tr> <tr><td>Water Vapor Permeance</td><td>ASTM E96</td><td>2.4 perms</td></tr> <tr><td>Dimensional Stability</td><td>ASTM D1204</td><td>0.0%*</td></tr> <tr><td>Accelerated Weathering</td><td>ASTM G154</td><td>Pass</td></tr> <tr><td>Fungi Resistance</td><td>ASTM G21</td><td>Pass (Zero Rating)</td></tr> <tr><td>Low Temperature Flexibility</td><td>ASTM D5147</td><td>Pass at -45°F</td></tr> <tr><td>Crack Spanning</td><td>ASTM D5849</td><td>Pass - 2mm / 0.08 in</td></tr> <tr><td>Volume Solids</td><td>ASTM D2697</td><td>87 - 89%</td></tr> <tr><td>Weight Solids</td><td>ASTM D1644</td><td>88 - 90%</td></tr> <tr><td>Volatile Organic Content (VOC)</td><td>44 g/L</td><td></td></tr> <tr><td>Viscosity</td><td>ASTM D2196</td><td>1,500 - 4,000 cps</td></tr> <tr><td>Solar Reflectance</td><td>ASTM C1549</td><td>86%</td></tr> <tr><td>Thermal Emittance</td><td>ASTM C1371</td><td>88%</td></tr> <tr><td>Solar Reflective Index (SRI)</td><td>ASTM E1980</td><td>108</td></tr> </tbody> </table>	Physical Property	Test Method	Typical Value	Tensile Strength	ASTM D412	1,435 psi**	Elongation	ASTM D5147	351%**	Flexibility - 1/8" Mandrel Bend	ASTM D522	Pass	Tear Resistance	ASTM D624	242 lbf/in*	Peak Load	ASTM D5147	447 lbf/in*	Breaking Strength	ASTM D751	244 lbf/in*	Hardness	ASTM D2240	85 Shore A**	Dynamic Puncture Resistance	ASTM D5635	50 J*	Static Puncture Resistance	ASTM D5602	95 lbf*	Water Absorption	ASTM D95	0.1%*	Permeability	ASTM E96	0.021 perm-inch	Water Vapor Permeance	ASTM E96	2.4 perms	Dimensional Stability	ASTM D1204	0.0%*	Accelerated Weathering	ASTM G154	Pass	Fungi Resistance	ASTM G21	Pass (Zero Rating)	Low Temperature Flexibility	ASTM D5147	Pass at -45°F	Crack Spanning	ASTM D5849	Pass - 2mm / 0.08 in	Volume Solids	ASTM D2697	87 - 89%	Weight Solids	ASTM D1644	88 - 90%	Volatile Organic Content (VOC)	44 g/L		Viscosity	ASTM D2196	1,500 - 4,000 cps	Solar Reflectance	ASTM C1549	86%	Thermal Emittance	ASTM C1371	88%	Solar Reflective Index (SRI)	ASTM E1980	108
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MAINTENANCE:	<p>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.</p>																																																																											
TECHNICAL SERVICES:	<p>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.</p>																																																																											

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