

# AlphaGuard™ MTS Base Coat

## High Performance, One-Part, Moisture Triggered, Polyurethane Base Coat

### FEATURES

Moisture Triggered Cure

High Solids Content

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
- No mixing of multiple components
- No extra labor steps
- No pot life limitations
- Perfect option for odor sensitive accounts/facilities
- Meets all VOC regulation limits
- Suitable for use over many substrates/roof types

### DESCRIPTION

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

### BASIC USES

AlphaGuard MTS Base 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. The product is installed in a fully-reinforced application utilizing AlphaGuard Glass Mat or Permafab reinforcements.

### PACKAGING

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

### COLOR

Gray

### 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:** Surface must be clean, dry, in sound condition, and free of dirt, debris, and contaminants. 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.

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

# AlphaGuard™ MTS Base Coat

## APPLICATION CONTINUED

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

**Priming:** Primers may be needed on specific substrates/surfaces prior to application. See the AlphaGuard Installation Guide for recommended primers. 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.

**Fully-Reinforced Application:** Fully embed AlphaGuard Glass Mat or Permafab into wet AlphaGuard MTS Base Coat using a brush or roller until reinforcement is fully saturated and is free of voids, wrinkles, air pockets, standing fibers, etc. In overlap areas ensure wet base coat is present on the top of the embedded sheet and overlap side laps a minimum of 3" (76 mm) and end laps a minimum of 6" (152 mm). Follow the same guidelines to embed the reinforcement in these areas. Do not allow foot traffic on the AlphaGuard MTS Base Coat during application or until liquid product has cured. Once cured, apply top coat at the specified rate fully covering the embedded reinforcement.

## ACCEPTABLE ROOF SURFACES

BUR Gravel	BUR Smooth	Concrete	MB Granule	MB Smooth	Metal/ Metal Fluoropolymer	Single Ply	SPUF	Walls
	•	•	•	•		•		

## COVERAGE RATES

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

3 gals / 100 sq. ft. (1.2 L/m<sup>2</sup>) (48 wet mils)

### Granule Surfaced MB Substrates:

4 gals / 100 sq. ft. (1.6 L/m<sup>2</sup>) (64 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°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

**SPRAY EQUIPMENT  
RECOMMENDATIONS**  
CONTINUED

**CLEAN UP**

**LIMITATIONS**

**PHYSICAL PROPERTIES**

**CODES & APPROVALS**

**MAINTENANCE**

**PRECAUTIONS**

# AlphaGuard™ MTS Base Coat

**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

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

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.

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/m <sup>2</sup> per day
Volume Solids	ASTM D2697	87-89%
Weight Solids	ASTM D1644	88-90%
VOC		< 50 g/L

AlphaGuard MTS System Testing

Florida Building Code



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.

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

## TECHNICAL SUPPORT

# AlphaGuard™ MTS Base Coat

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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