AlphaGrade™ Top Coat

High Performance, Two-Component, Bio-Based, Polyurethane Top Coat

FEATURES	BENEFITS
Bio Content	• Rapidly renewable content makes product sustainable and environmentally responsible
Virtually Odorless	• System is perfect for sensitive accounts such as schools, hospitals, occupied buildings, etc.
High Solids	• Results in thicker dry film vs. lower solids products
Low VOC	• 0 g/L
Highly Reflective (White)	• Lowers rooftop temperatures resulting in less stress and potential energy savings

DESCRIPTION

AlphaGrade Top Coat is a two-component, bio-based, polyurethane liquid applied product.

BASIC USES

AlphaGrade Top Coat is used as the surfacing coat for the AlphaGrade system in conjunction with AlphaGrade and AlphaGrade Base Coat products.

PACKAGING

Pails: 2.5 gal (7.5 L) Kits
Part A - 2 gals (7.5 L) packaged in a 5 gal (18.9 L) container
Part B - 0.5 gal (1.8 L)

Drums: 250 gal (946.3 L) Kits
Part A - 4 drums total - Each containing 50 gals (189.2 L) packaged in a 55 gal (208.1 L) container
Part B - 1 drum total - Containing 50 gals (189.2 L) packaged in a 55 gal (208.1 L) container

COLOR

White

GRADE

Brush, Roller, Spray, Squeegee & Backroll

POT LIFE

20-25 minutes, 77°F (25°C)/50% RH.
**Temperature dependent - Increasing temperature reduces expected pot-life*

STORAGE

12 months shelf life in unopened containers when properly stored.

DO NOT FREEZE PART B

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 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: AlphaGrade 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:
Product material temperatures must be above 45°F (7°C) when mixing.
Pails: Use a heavy duty power drill with Jiffy Mixer attachment. Cordless drills are not recommended and may not properly mix the materials.
Mix Part A for 1 minute before adding Part B. After adding Part B mix the combined

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APPLICATION CONTINUED

materials for a minimum of 2 minutes moving the mix blade from top to bottom. Make sure to mix areas around side walls and bottom of pail. Improper mixing will result in non-curing material.
Drums: Use industrial drum mixing equipment to mechanically mix each Part A and Part B container. Mix until product is consistent in appearance and viscosity. Do not thin.
Do not break down kits into smaller quantities –MIX ENTIRE KIT.

Priming: AlphaGrade 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.

Installation: Install product using one of the approved application methods evenly at the recommended coverage rate. Grid roof and use wet mil gauges to monitor coverage rates throughout application. Never fully invert empty pails in an attempt to drain material as this may result in improperly cured material during application.

Non-Skid Application: Install an additional layer of white top coat 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.

COVERAGE RATES

Top Coat: 2 gals / SQ (0.8 L/m²) (32 wet mils)
Non-Skid Coat: 1-1.5 gals / SQ (0.4-0.6 L/m²) (16-24 wet mils)

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

TEMPERATURE RECOMMENDATIONS

Min Ambient: 45°F (7.2°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 (2.77°C) of ambient temperatures
• Do not apply when precipitation, fog or dew is imminent prior to cure of the product

CURE TIMES

Skin Time: 3-4 hours @ 77°F (25°C) / 50% RH
Recoat Time: 6-7 hours @ 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.

ACCEPTABLE ROOF SURFACES

Gravel-Surfaced Built-Up Roofs

SPRAY EQUIPMENT RECOMMENDATIONS

GENERAL GUIDELINES
Component: Two-Component
Pressure: 4,500 psi
Ration (Part A : Part B): 4:1
Tip Size: .045 - .055
Filters: Remove
Hose Type: High Pressure
WHIP: ¼" High Pressure
Product Temp: Ambient
• 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. Spray equipment can be flushed/cleaned using MEK or xylene.

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LIMITATIONS

• Not recommended for use over the following:
Roof Decks: Direct applications to 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: Clay tile, expanded or extruded polystyrene insulation, fluoropolymer finished metal, shingles, silicone-based products, and tar-based products.
• Not for use under continuous immersion

PHYSICAL PROPERTIES

PHYSICAL PROPERTY	TEST METHOD	VALUE
Accelerated Weathering	ASTM D5147	Pass
Dynamic Puncture Resistance	ASTM D5635	32.5 J
Elongation	ASTM D412	130%
Low Temperature Crack Bridging	ASTM C836	Pass
Low Temperature Flexibility	ASTM D5147	Pass @ -55°F
Static Puncture Resistance	ASTM D5602	20 lbf
Tear Strength	ASTM D624	36 lbf/in
Tensile Strength	ASTM D412	274 psi
Water Absorption	ASTM D95	1.0%
Volume Solids	ASTM D2697	100%
Weight Solids	ASTM D1644	100%

CODES & APPROVALS

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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