

AlphaGrade™ Top Coat

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



FEATURES

Bio Content
Virtually Odorless
High Solids
Low VOC
Highly Reflective (White)

BENEFITS

- Rapidly renewable content makes product sustainable and environmentally responsible
- System is perfect for sensitive accounts such as schools, hospitals, occupied buildings, etc.
- Results in thicker dry film vs. lower solids products
- 0 g/L
- 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, Gray, Reflective Gray, Reflective Tan, Safety Yellow, Tan, Dark Gray, Dark Tan

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

Part A: 24 months shelf life in unopened containers when properly stored.

Part B: 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.

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APPLICATION CONTINUED

Mix Part A for 1 minute before adding Part B. After adding Part B mix the combined 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. Geogard Primer may be used as an alternate to Tremco BIO Prime.

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.



www.tremcoroofing.com

3735 Green Road
Beachwood, Ohio 44122
1.800.852.6013

6685 Langstaff Road
Vaughan, ON L4L 1A6
1.800.668.9879

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