

AlphaGrade™

High Performance, Two-Component, Bio-Based, Polyurethane Leveling Coat for Gravel-Surfaced Built-up Roofs

FEATURES

Bio Content

Recycled Content

Catalyzed Cure

High Solids

Low VOC

BENEFITS

- High bio content makes product sustainable and environmentally friendly
- Post-industrial recycled content is environmentally friendly
- Results in faster cure times compared to one-component products
- 100% Solids for more waterproofing and greater value
- Low Odor, Non-flammable, Meets California VOC limits

DESCRIPTION

AlphaGrade is a two-component, bio-based, polyurethane leveling coat with high percent post-consumer recycled and bio content.

BASIC USES

AlphaGrade is designed for restoring gravel surfaced asphalt BUR roof systems. It is used as a leveling coat prior to application of AlphaGrade Base and Top Coat products.

PACKAGING

Pails: 5.5 gal (20.8 L) Kits

Part A - 5 gals (18.9 L) packaged in a 7 gal (26.5 L) container
Part B - 0.5 gal (1.8 L)

Drums: 550 gal (2,081.9 L) Kits

Part A - 12 drums total - Each containing 41.5 gals (157.0 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

Gray

GRADE

Straight Blade Rubber Squeegee

POT LIFE

10-20 minutes (77°F/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: Remove loose gravel, dirt, dust, rotted felt, and foreign matter. Roof must be clean. Wet insulation must be identified and replaced. Repair flashings, defects, breaks, and weak areas utilizing like plies and POWERply Endure BIO Adhesive TF or

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APPLICATION CONTINUED

other approved non-solvent based products. Use of solvent-based mastics/adhesives and Tremco SF products are not recommended in preparation of the AlphaGrade system installation. Allow recommended cure time of repairs prior to installing the AlphaGrade system.

Mixing: Product material temperatures must be above 45°F (7°C) when mixing.

Pails: Use a heavy duty 1/2" power drill with 24-30" long, 8" wide mud mixing paddle at low speed. 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 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 that accompanies the AlphaGrade Applicator System 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.

Application: Mix entire AlphaGrade kit and pour onto clean and dry roof surface. Using a straight blade rubber squeegee work the material back and forth to fully encapsulate the embedded gravel eliminating voids and air pockets. Grid roof and use wet mil gauges to monitor coverage rates throughout application. The final surface will be semi-smooth but some aggregate profile will show through the surface. Never fully invert empty pails in an attempt to drain material as this may result in improperly cured material during application.

COVERAGE RATES

Coverage rates will vary depending on the gravel embedment. It is recommended that prior to quoting a project that a coverage rate test be completed following Tremco guidelines to determine average application rates. Typical coverage rates range from 12-16 gals / 100 sq. ft. (4.8 - 6.4 L/m²) (192-256 wet mils). Coverage should encapsulate gravel but will not be a smooth surface when complete.

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 overnight temperature drops below 32°F (0°C).
- 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 SUBSTRATES

Gravel-surfaced Built-Up Roofs

CLEAN UP

Before the product cures, clean surfaces and equipment with Isopropyl Alcohol.

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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 intended to perform under ponding conditions. Positive drainage required.
- Do not install on roofs with slopes greater than 1:12 (1" per foot).

PHYSICAL PROPERTIES

PHYSICAL PROPERTY	TEST METHOD	VALUE
Dynamic Puncture Resistance	ASTM D5635	32.5 J
Elongation	ASTM D412	89%
Low Temperature Crack Bridging	ASTM C836	Pass
Static Puncture Resistance	ASTM D5602	20 lbf
Tensile Strength	ASTM D412	122 psi
Water Absorption	ASTM D95	0.0%
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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