

# AlphaGrade™ Base Coat

## High Performance, Two-Component, Bio-Based, Polyurethane Base Coat

### FEATURES

Bio Content  
Virtually Odorless  
High Solids  
Low VOC

### 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

### DESCRIPTION

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

### BASIC USES

AlphaGrade Base Coat is used as part of the AlphaGrade system in conjunction AlphaGrade and AlphaGrade Top Coat products.

### PACKAGING

#### Pails: 3.75 gal (14.1 L) Kits

Part A - 3.25 gals (12.3 L) packaged in a 5 gal (18.9 L) container

Part B - 0.5 gal (1.8 L)

#### Drums: 375 gal (1,419.5 L) Kits

Part A - 7 drums total - Each containing 46.6 gals (176.4 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

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:** Surface must be clean, dry, in sound condition, and free of dirt, debris, and contaminants. Wet insulation must be identified and replaced. Deficient areas of existing system must be repaired. All repairs should be made with approved materials matching the existing components and allowed to properly cure prior to application of liquid-applied products.

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## APPLICATION

CONTINUED

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.

### 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 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:** Primers may be needed on specific substrates/surfaces prior to application. See AlphaGuard Installation Guide for a list of recommended primers. AlphaGrade, AlphaGrade Base Coat, and AlphaGrade Top Coat should be top-coated within 72 hours of application. If cured product is exposed for longer than 72 hours, an application of Tremco BIO Prime 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.

**Flashing Application:** Fully embed AlphaGuard Glass Mat or Permafab into wet AlphaGrade 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. Once cured, apply top coat at the specified rate fully covering the embedded reinforcement.

**Field Application:** Apply AlphaGrade Base Coat over cured AlphaGrade at specified rate.

2 gals / 100 sq. ft. (0.8 L/m<sup>2</sup>) (32 wet mils) minimum.

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

**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

**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.*

Gravel-surfaced built-up roofs

## COVERAGE RATES

## TEMPERATURE RECOMMENDATIONS

## CURE TIMES

## ACCEPTABLE ROOF SURFACES

## SPRAY EQUIPMENT RECOMMENDATIONS

## CLEAN UP

## LIMITATIONS

## PHYSICAL PROPERTIES

## CODES & APPROVALS

## MAINTENANCE

## PRECAUTIONS

## TECHNICAL SUPPORT



Roofing & Building Maintenance

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Tremco Roofing & Building  
Maintenance is part of Tremco  
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## GENERAL GUIDELINES

**Component:** Two-Component

**Pressure:** 4,500 psi

**Ratio (Part A : Part B):** 6.5:1

**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

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

- 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 PROPERTY	TEST METHOD	VALUE
Dynamic Puncture Resistance	ASTM D5635	32.5 J
Elongation	ASTM D412	159%
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	34 lbf/in
Tensile Strength	ASTM D412	193 psi
Water Absorption	ASTM D95	1.0%
Volume Solids	ASTM D2697	100%
Weight Solids	ASTM D1644	100%



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.

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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