

AlphaGuard[®] BIO Top Coat



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

FEATURES

Bio Content

- High bio content makes product sustainable and environmentally friendly

Reflective Top Coat

- Lower surface temperature
- Potential Energy Savings

Catalyzed Cure

- Results in faster cure times than similar one-component products

Versatile

- Suitable for use over many substrates/roof types

High Solids

- 100% Solids

Low VOC

- Low Odor
- Meets California VOC limits
- Can be used in limited access areas

Chemical Resistant

- Resistant to a wide variety of harmful chemicals

COMPOSITION:

The AlphaGuard BIO Top Coat is a two-part, bio-based, polyurethane roof coating.

BASIC USES:

The AlphaGuard BIO Top Coat can be used in a variety of projects, including roof restoration, approved recover and new construction assemblies, IRMA and vegetative roof systems. AlphaGuard BIO Top Coat is used as a surfacing over AlphaGuard BIO Base Coat and reinforcement.

PACKAGING:

Part A - 5 gallon (18.9 L) container, 2.2 gal total (8.3 L).
Part B - 1 gallon (3.78 L) container, 0.9 gal total (3.4 L).
Each Part A & Part B kit yields 3.1 gallons (11.7 L).

COLORS:

White

GRADE:

Brush/roller/squeegee.

POT LIFE:

20-25 minutes, 77°F (25°C)/50% RH.

**Temperature dependent - Increasing temperature reduces expected pot-life*

STORAGE:

12 months in unopened containers. Recommended storage conditions are in an area sheltered from harsh weather conditions at temperatures ranging from 60-80°F (15-26°C) and low humidity. Storage temperatures must not exceed 110°F (43°C). Do not store in direct sunlight.

COVERAGE RATE:

Top Coat: 2 gals / SQ (32 wet mils) (0.8 L/m²)

Non-Skid Coat: 1.5 gals / SQ (24 wet mils) (0.6 L/m²)

Tremco Plain and Simple Warranty: 3 gals / SQ (48 wet mils) (1.2 L/m²)

APPLICATION:

Preparation: AlphaGuard BIO Base Coat must be clean, dry, solid, and free of dirt, grease, oil, algae, and other debris. AlphaGuard BIO Base Coat should be top-coated within 72 hours of base coat application.

Mixing: 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 (White Label) for 1 minute before adding Part B (White Label). After adding Part B mix the combined materials for a minimum of 2

AlphaGuard® BIO Top Coat

APPLICATION (continued):

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. Never fully invert empty pails in attempt to drain material – will result in non-curing material.

Do not break down kits into smaller quantities –MIX ENTIRE KIT.

Repairs: If AlphaGuard BIO is being used over an existing roof system, all appropriate repairs should be made before applying the AlphaGuard BIO system. Allow suggested cure time of repairs before applying AlphaGuard BIO to the roof surface.

Non-Skid Application: In areas where a slip-resistant surface is required, 20 - 40 mesh silica sand can be broadcast at 10 - 15 lbs / SQ (0.5 - 0.7 kg/m²) and back-rolled in an additional layer of Tremco AlphaGuard BIO Top Coat.

ACCEPTABLE ROOF SURFACES:

Properly applied and cured AlphaGuard BIO Base Coat and reinforcement.

CLEAN UP:

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

LIMITATIONS:

- Do not apply when ambient temperatures are below 45°F (7°C)
- Do not apply when overnight temperature drops below 40°F (4°C)
- Do not adhere to expanded polystyrene or extruded polystyrene.
- Do not apply directly to wood decks, poured in place gypsum, lightweight insulating concrete decks, structural lightweight concrete and cementitious wood fiber decks.
- Not for use over coal tar pitch, gravel BUR, corrugated metal roof systems, and siliconebased coatings and sealants

PHYSICAL PERFORMANCE CHARACTERISTICS:

Property	Test Method	Typical Value
Tensile Strength ¹	ASTM D412	1,400 lb/in ² (9.7 MPa)
Water Vapor Transmission ¹	ASTM E96	0.19 perms (0.13 metric perms)
Low Temperature Flexibility	ASTM D522	Pass at -25°F (-31.7°C) {1/2" (12.7 mm) mandrel bend}
Tear Strength ¹	ASTM D5147	309 lbf (140 kg)
Water Absorption ¹	ASTM D471	0.008
Indentation Hardness	ASTM D2240	81 Shore A
Dimensional Stability ¹	ASTM D5147	< 0.1%
Reflectivity	ASTM C1549	84%
Emissivity	ASTM C1371	87%
SRI	ASTM E1980	105
Volume Solids	ASTM D 2697	100%
Weight Solids	ASTM D 1644	100%
Volatile Organic Content	ASTM D3960	< 6 g/L (A+B mix)
Viscosity	ASTM D 2196	2,500 - 5,500 cp (mPas)

¹ Data is for AlphaGuard BIO System

SKIN & OVER-COAT TIMES

Skin Time at: 77 °F (25°C)/ 50% RH 3-4 hours

Over-Coat Time at: 77 °F (25°C)/ 50% RH 6-7 hours

NOTE- Both skin & overcoat times are temperature-dependent. Higher temperatures will result in reduced skin/overcoat times, lower temperatures may result in extended skin/overcoat times



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