



ALPHAGUARD® BIO TOP COAT

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

DESCRIPTION

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.

FEATURES & BENEFITS

- High BIO content makes the product more sustainable and environmentally friendly.
- Reflective top coat reduces surface temperature and can lead to energy savings.
- 2-Component cure results in faster cure times than similar 1-component products.
- Suitable for use over many substrate/roof types.
- 100% Solids
- Low odour and low VOC

PACKAGING

Part A - 18.9 L container, 8.3 L total.
Part B - 3.78 L container, 3.4 L total.
Each Part A & Part B kit yields 11.7 L.

COLOURS

White

COVERAGE

Top Coat: 0.8 wet mm (0.8 L/m²)

Non-Skid Coat: 0.6 wet mm (0.6 L/m²)

INSTALLATION

- 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 a Jiffy Mixer attachment. Cordless drills are not recommended and may not mix the materials properly. 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 mixing blade from top to bottom of the pail. Make sure to mix around side walls and bottom of the pail. Improper mixing will result in non-curing material. Never fully invert empty pails in an attempt to fully drain the pail. There will be a small amount of un-mixed Part A at the bottom of the pail which will not cure and will cause soft spots in the coating.
- 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-Slip Application: In areas where a slip-resistant surface is required, 20-40 mesh silica sand can be broadcast at a rate of 0.5-0.7 kg/m² and back-rolled into an additional layer of Alphaguard BIO Top Coat.
- For detailed information please see the Alphaguard BIO application instructions.

LIMITATIONS

- Do not apply when ambient temperatures are below 7°C.
- Do not apply when overnight temperature drops below 4°C.
- Do not adhere to expanded polystyrene or extruded polystyrene.

- Do not apply directly to plywood, tongue and groove decks, wood decks, poured in place gypsum, lightweight insulating concrete decks, structural lightweight concrete and cementitious wood fibre decks.
- Not for use over coal tar pitch, gravel BUR, corrugated metal roof systems, and silicone-based coatings and sealants.

WARRANTY

Tremco warrants its Products to be free of defects in materials but makes no warranty as to appearance or colour. Since methods of application and on-site conditions are beyond our control and can affect performance, Tremco makes no other warranty, expressed or implied, including warranties of MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE with respect to Tremco Products. Tremco's sole obligation shall be, at its option, to replace or to refund the purchase price of the quantity of Tremco Products proven to be defective, and Tremco shall not be liable for any loss or damage.

PROPERTY	TEST METHOD	TYPICAL VALUE
Tensile Strength	ASTM D412	> 4.0 MPa
Water Vapor Transmission	ASTM E96	3.5 g/m ² /day
Low Temperature Flexibility	ASTM D522	Pass at -31.7°C {12.7 mm mandrel bend}
Bond Strength	ASTM C794	Concrete Masonry - 4 N
Tear Strength	ASTM D5147	140 kg / 25.4 mm
Water Absorption	ASTM D471	0.008
Indentation Hardness	ASTM D2240	81 Shore A units
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 cps
Skin Time at	25°C / 50% RH 3-4 hours	
Over-Coat Time at	25°C / 50% RH 6-7 hours	

To find your local office address and contact details, visit

www.tremcocpg-asiapacific.com

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