AlphaGuard® BIO Base Coat

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

FEATURES	BENEFITS
Bio Content	• High bio content makes product sustainable and environmentally friendly
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 Base Coat is a two-part, bio- based, polyurethane roof coating. AlphaGuard BIO Base Coat is used with fiberglass mat or polyester reinforcement.

BASIC USES:
The AlphaGuard BIO System can be used in a variety of projects, including roof restoration, approved recover and new construction assemblies, IRMA and vegetative roof systems.

PACKAGING:
Part A - 5 gallon (18.9 L) container, 3.2 gal total (12.1 L).
Part B - 1 gallon (3.78 L) container, 0.8 gal total (3.0 L).
Each Part A & Part B kit yields 4 gallons (15.1 L).

COLORS:
Gray

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:
Smooth BUR/MB, Concrete, Single-Ply surfaces:
3 gals / SQ (48 wet mils) minimum (1.2 L/m^2)
Granule surfaced MB:
4 gals / SQ (64 wet mils) minimum (1.6 L/m^2)

APPLICATION:
Preparation: Clean the substrate with a high pressure power wash of at least 2,000 psi (13.5 MPa). Prior to application the surface must be clean, dry, solid, and free of dirt, grease, oil, algae, and other debris.
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 (Gray Label) for 1 minute before adding Part B (Gray Label). 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. Never fully invert empty pails in attempt to drain material will result in non-curing material.

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AlphaGuard® BIO Base Coat

APPLICATION *(continued)*:

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.
Reinforcement: AlphaGuard BIO Base Coat requires full reinforcement with AlphaGuard Glass Mat or Permafab. Fully embed reinforcement into wet coating using a brush or roller until free of voids, wrinkles, air pockets, standing fibers, etc.

ACCEPTABLE ROOF SURFACES:

Bituminous Roof Systems: AlphaGuard BIO can be used over aged asphalt based roof products. When using over felt roof systems, repair any blisters and degraded felts.
Concrete: AlphaGuard BIO can be used directly over concrete with the appropriate primer. Any cracks should be repaired before coating is applied. Allow new concrete to fully cure for a minimum of 28 days (a concrete dryness test should be performed before application).
Single Ply Systems: AlphaGuard BIO can be used over select single ply systems, when used with the appropriate primer.
Modified Bitumen Systems: AlphaGuard BIO can be used over MB roof systems when used with the appropriate primer.

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 40ºF (4ºC)
- 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 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/in² (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	88 Shore A
Dimensional Stability[1]	ASTM D5147	< 0.1%
Volume Solids	ASTM D 2697	100%
Weight Solids	ASTM D 1644	100%
Volatile Organic Content	ASTM D3960	1 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 temperaturesmay result in extended skin/overcoat times

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