

Tremco Roofing & Building Maintenance

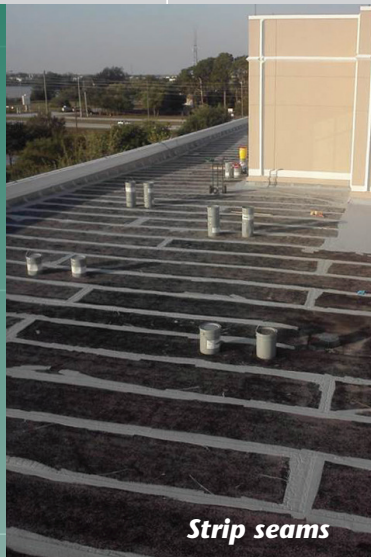


AlphaGuard BIO NR

Tremco Roofing's AlphaGuard BIO NR is a polyurethane roof restoration system, composed of an aromatic base coat and an aliphatic top coat. Various primers are available for use on a wide variety of substrates. The AlphaGuard BIO NR system employs complete reinforcement of all horizontal and vertical seams, drains, flashings and projections. This very low odor system can be used to extend the life of smooth BUR systems, granulated MB roofs and a wide variety of single ply roofing systems. The AlphaGuard BIO NR system is highly reflective, using a bright, white, aliphatic top coat and has a high bio content. It is also an ecologically sound roofing solution: highly reflective, very low odor, high biobase content and landfill friendly-it eliminates taking the existing roof to the landfill. AlphaGuard BIO NR is a technically superior, budget friendly, non-offensive, roof restoration system that is ideal for restoring many existing roof types, particularly where odor is a serious concern.



Pressure wash



Strip seams



Apply base coat



Apply top coat

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AlphaGuard BIO NR

FEATURES

100% solids

White aliphatic top coat

High bio content

Two component

UL approved

BENEFITS

VOC compliant everywhere
Extremely low odor
Little to no shrinkage

Highly reflective
Chemically superior
Abrasion resistant

Renewable resource

Dependable cure
Wide application range
Cures quickly

Excellent fire resistance

AlphaGuard BIO NR System Physical Properties

PHYSICAL VALUE	TEST RESULT	TEST
Volume solids	100%	ASTM D 2697
Weight solids	100%	ASTM D 1644
Tensile strength	750psi	ASTM D-412
Elongation	50.0%	ASTM D-412
Tear strength	75psi	ASTM D-624
VOC	6 g/l	ASTM D 3960
Viscosity	1,500-4,500	ASTM D 2196
Water vapor transmission	(wet cup) 0.019 perm-in	ASTM E-96
Accelerated weathering	pass	ASTM G-154
Low temp flex	20°F, with 1" mandrel	ASTM D 522
Shore hardness	81	ASTM D 2240
Water absorption	0.8%	ASTM D 471
SRI	105	ASTM E 1980
Skin time	2-3 hours at 77f. = 50 RH	
Recoat time	7-8 hours at 77f. = 50 RH	
Foot traffic	18-24 hours at 77f = 50 RH	



Before



Prime the roof



Strip seams and flashings



Apply base and top coats



Finished roof

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 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 silicone-based coatings and sealants
- Do not apply to surface when surface temperature exceeds 120°F.

PACKAGING:

Base Coat Part A: 3.1 gallons in a 5 gallon (18.9 liter) pail
Base Coat Part B: .9 gallons in a 1 gallon (3.78 liter) pail
Top Coat Part A: 2.2 gallons in a 5 gallon (18.9 liter) pail
Top Coat Part B: .8 gallons in a 1 gallon (3.78 liter) pail

COLORS: White

POT LIFE:

20-25 minutes (77°F/50% RH)

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

STORAGE LIFE:

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.

APPLICATION:

a. Preparation: Surface to which AlphaGuard BIO NR base coat is to be applied must be clean, dry, solid and free of dirt, grease, oil, algae and any other debris or contaminant. All repairs must be completed and dry, before base coat can be applied. AlphaGuard BIO NR base coat should be top-coated within 72 hours of base coat application.

b. Mixing: Both AlphaGuard BIO NR base coat and top coat must be mixed. Make sure the proper Part A is mixed with the proper Part B. 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 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.

c. Repairs: When AlphaGuard BIO NR is being used over an existing roof system, all repairs, flashings and seam work must be completed and fully cured before the base coat is applied.

d. Substrates:

SINGLE PLY: AlphaGuard BIO NR can be used over select single ply systems, including EPDM, TPO, TPA, Hypalon and others, when used in conjunction with the appropriate primer. All laps must be completely sealed with a three course system of AlphaGuard BIO NR base coat, reinforcing polyester or glass membrane, followed by a second layer of AlphaGuard BIO NR base coat (approximately 80 dry mils thick).

MODIFIED BITUMEN: AlphaGuard BIO NR can be used to restore a wide variety of smooth or granulated, SBS, SEBS, or APP modified ply sheets. All seams must be sealed with a three course application of AlphaGuard BIO NR base coat, polyester or glass membrane, followed by a second layer of AlphaGuard BIO NR base coat (approximately 80 dry mils thick). Before application of three course system, apply cove of AlphaGuard BIO NR base coat, Geogard Seam Sealer, or Tremseal D to the joint, easing the change of height in the overlap area.

SMOOTH SURFACE BUR: All laps must be tight with no fishmouths, torn edges, or moles runs. Prime the surface with AlphaGuard WB primer. Reinforce any and all flashing seams with a three course application of AlphaGuard BIO NR base coat, polyester or glass membrane, followed by a second layer of AlphaGuard BIO NR base coat (approximately 80 dry mils thick).

COVERAGE RATES:

Smooth MB, BUR and Single Ply:

2 gallons per 100 sq.ft. of AlphaGuard BIO NR base coat (32 wet/dry mils)

1 gallon per 100 sq.ft. of AlphaGuard BIO NR top coat (16 wet/dry mils)

System thickness: 48 wet/dry mils

Granule MB Surface:

3 gallons per 100 sq.ft. of AlphaGuard BIO NR base coat (48 wet/dry mils)

1 gallon per 100 sq.ft. of AlphaGuard BIO NR top coat (16 wet/dry mils)

System thickness: 64 wet/dry mils

CLEAN UP:

Before the product cures, clean surfaces and equipment with isopropyl alcohol.

PRECAUTION:

Use Tremco AlphaGuard BIO NR system coatings with adequate ventilation. Users must read container labels and Material Safety Data Sheets for health and safety precautions prior to use.

AVAILABILITY AND COST:

Contact your local Tremco Roofing representative for pricing and availability. For the name and number of your Representative, call the Roofing Division at 800.852.6013 or visit the Find A Rep section on www.tremcoroofing.com.

Tremco Roofing And Building Maintenance

AlphaGuard Bio NR

MAINTENANCE:

Your local Tremco Roofing 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.

GUARANTY/WARRANTY:

Tremco Inc. warrants AlphaGuard BIO NR to be free of defects and to meet published physical properties when cured and tested according to ASTM and Tremco standards. Under this warranty, we will provide at no charge, AlphaGuard BIO NR in standard packaging to replace any AlphaGuard BIO NR proven to be defective when applied according to our written instructions, and in applications recommended by us as suitable for AlphaGuard BIO NR. THIS IS BUYER'S SOLE AND EXCLUSIVE REMEDY.

All claims concerning product defects must be made in writing within (12) months of shipment. The absence of such claims in writing during this period will constitute a waiver of all claims with respect to such product.

This warranty shall be IN LIEU OF any other warranty, express or implied, including but not limited to, any implied warranty of MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

AlphaGuard BIO NR can be used in a system configuration. Talk to your local Tremco Representative about system roof warranties.

TECHNICAL SERVICES:

Your local Tremco Representative, working with the Technical Service Staff, can help analyze conditions and needs to develop recommendations for special applications. The services of the Tremco Research Center, which has earned a unique reputation in weatherproofing technology, complement and extend the services of the Tremco Technical Service Staff.

STATEMENT OF POLICY:

Tremco takes responsibility for furnishing quality materials and for providing specifications and recommendations for their proper installation. As neither Tremco itself nor its Representatives practice architecture or engineering, Tremco offers no opinion on, and expressly disclaims any responsibility for the soundness of any structure on which its products may be applied. If questions arise as to the soundness of a structure or its ability to support a planned installation properly, the Owner should obtain opinions of competent structural engineers before proceeding. Tremco accepts no liability for any structural failure or for resultant damages, and no Tremco Representative is authorized to vary this disclaimer.



Clean roof surface



Reinforce seams & flashings



Finished roof



Prime



Apply base & top coats

Talk to your Tremco Rep about...

ROOF DIAGNOSTICS
CADD DRAWINGS
RECOMMENDATIONS
REPAIR
RESTORATION
REPLACEMENT
BUDGETS
SPECIFICATION ASSISTANCE
JOB SITE INSPECTION
WARRANTIES
PLANNED ROOFING PROGRAMS
MAINTENANCE SERVICES
WTI GENERAL CONTRACTING

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www.tremcoroofing.com

3735 Green Road • Beachwood, Ohio • 44122 • 1.800.852.6013
50 Beth Neilson Drive • Toronto, Ontario • M4H 1M6 • 1.800.668.9879

