AlphaGuard[™] Si 70

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High performance, one component, moisture cure silicone coating

	FEATURES		BENEFITS					
	Inorganic Compou	ınd	Superior weathering characteristics					
	One Component		 No mixing of multiple components No extra labor steps No pot life limitations 					
	Versatile		• Suitable for use over many substrates/roof types					
	Highly Reflec	ctive (White)	• Lowers rooftop temperatures resulting in less stress and potential energy savings					
ESCRIPTIO	AlphaGu Applied	ard Si 70 mee Silicone Coat	high solids, one component, breathable, liquid applied silicone roof system. ts or exceeds the requirements of ASTM D6694 Standard Specification for Liquid- ing Used in Spray Polyurethane Foam Roofing Systems.					
BASIC US	SES AlphaG	iuard Si 70 ca	n be used to restore or repair approved existing roofing substrates.					
PACKAGING5 gal (18.9 L) pail50 gal (189.2 L) drum *Packaged in 55 gal drum								
C	OLOR Whit	e, Dark Grey,	Light Grey, Tan					
G	RADE Brus	sh, Roller, Spr	ay, Squeegee & Backroll					
ST	R	ecommended gnition source	life in unopened containers when properly stored. storage conditions is indoors in a ventilated, dry area removed from heat, open flame, s, and direct sunlight. Storage temperatures should range from 60-70°F (15-21°C) and below 32°F (0°C) or exceed 110°F (43°C).					
		On the job si area. Materi	te, materials should remain on the pallet until use and be stored in a shaded, ventilated als should be covered with a light-colored, reflective tarp for protection against the llow for adequate air flow inside the pallets.					
		Shelf life c	ould be affected if the product is not stored properly.					
A	PPLICATION	contamin of existir	reparation: Surface must be clean, dry, in sound condition, and free of dirt, debris, and ants. Existing wet roofing components must be identified and replaced. Deficient areas ng system must be repaired. All repairs should be made with like materials matching ting components and allowed to properly cure prior to application of liquid-applied ts.					
			surface has a pre-existing coating, paint, or sealant, please contact Tremco for ion/compatibility testing and surface preparation recommendations.					
		EPDI	A substrates require application of AlphaGuard Si Prep Cleaner prior to application.					
1	1	Pai	ing: Is: Use a heavy duty corded power drill with Jiffy Mixer mixing blade. Mix until product consistent in appearance and viscosity. Do not thin.					

APPLICATION CONTINUED

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Drums: Use industrial drum mixing equipment to mechanically mix each container. Mix until product is consistent in appearance and viscosity. Do not thin.

Priming: Application of AlphaGuard Si Primer is required on asphalt based substrates and surfaces. Adhesion testing is recommended for applications on existing singleply membranes and surfaces that have a pre-existing coating, paint, or sealant to determine if a primer is necessary.Review the recommended primer product data sheet for specific product and application information.

Installation: Install product using one of the approved application methods evenly at the recommended coverage rate. Use wet mil gauges to monitor coverage rates throughout application. Subsequent coats should be applied within 24 hours of prior applications.

Non-Skid Application: Install an additional layer of top coat in white or chosen color at 1-1½ gal / 100 sq. ft. (16-24 wet mils) (0.4-0.6 L/m²) and immediately broadcast and backroll an approved non-skid media. Color striping can be installed in 3-4" wide areas along the perimeter of the walkway area at a coverage rate of 1-1½ gal / 100 sq. ft. (16-24 wet mils) (0.4-0.6 L/m²) to provide identification of the areas on the roof. Approved Non-Skid Media:

- Silica Sand (20-40 mesh) Coverage: 20-30 lbs. / 100 sq. ft.
- No. 11 Roofing Granule Coverage: 10-15 lbs. / 100 sq. ft.

BUR Gravel	BUR Smooth	Concrete	Metal N	Aetal Fluoropoly	merMB Granu	eMB Smoot	h Single-Ply	SPUF	Walls
	•				•	•	•	•	

Smooth BUR, Smooth MB, and Single-Ply Substrates: Base Coat: 1 gal / 100 sq. ft. (0.4 L/m²) (16 wet mils)

Top Coat: 1½ gal / 100 sq. ft. (0.6 L/m²) (24 wet mils)

Granule Surfaced MB and SPUF Substrates:

Base Coat: 2 gal / 100 sq. ft. (0.8 L/m²) (32 wet mils) Top Coat: 1½ gal / 100 sq. ft. (0.6 L/m²) (24 wet mils)

Non-Skid Coat: 1-11/2 gals / 100 sq. ft. (0.4 - 0.6 L/m²) (16-24 wet mils)

Note: Coverage rates are listed at minimum recommended rates. The application surface can affect the necessary coverage rate. Color top coats may require higher coverage rates or additional coats to provide adequate hiding and consistent appearance.

Min Ambient: 40°F (4.4°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

Over-Coat Time:

2 hours @ 100°F (37.7°C) / 90% RH 8-12 hours @ 40°F (4.4°C) / 20% 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.

GENERAL GUIDELINES

Component: One-Component Pressure: 3,500 psi Tip Size: .030 - .039 Filters: Remove Flow Rate: Min 3 gpm Hose Type: Min 3/4" High Pressure BUNA-H Jacketed

ACCEPTABLE ROOF SURFACES

COVERAGE RATES

TEMPERATURE/WEATHER RECOMMENDATIONS

CURE TIMES

SPRAY EQUIPMENT RECOMMENDATIONS

SPRAY EQUIPMENT RECOMMENDATIONS CONTINUED

CLEAN UP

PHYSICAL PROPERTIES

CODES & APPROVALS

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WHIP: ¼" High Pressure BUNA-H Jacketed Product Temperature: 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

Rule 66 Mineral Spirits or VM&P Naptha

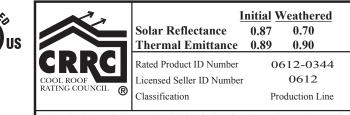
Not recommended for use over the following:

Roof Decks: 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: Asphalt-based gravel surfaced BUR systems, coal tar gravel surfaced BUR systems, clay tile, corrugated or standing seam metal roof systems, expanded or extruded polystyrene insulation, fluoropolymer finished metal, shingles, and tar-based products.

- Do not apply over asphalt surfaces without using the appropriate primer.
- Not for use under continuous immersion.

PROPERTY	TEST METHOD	TYPICAL VALUE		
Accelerated Weathering	ASTM G53	No Degradation (8,760 hrs)		
Elongation	ASTM D2370	235%		
Indentation Hardness	ASTM D2240	50 Shore A		
Low Temperature Flexibility	ASTM D522	Pass @ -15°F (-26.1°C)		
Permeance	ASTM E96	6.1 perms		
Tear Resistance	ASTM D624	37 lbf/in		
Tensile Strength	ASTM D2370	460 psi		
Water Absorption	ASTM D471	0.1%		
Volume Solids	ASTM D2697	69%		
Weight Solids	ASTM D1644	80%		
VOC	EPA Method 24	< 250 g/L		



Cool Roof Rating Council ratings are determined for a fixed set of conditions, and may not be appropriate for determining seasonal energy performance. The actual effect of solar reflectance and thermal emittance on building performance may vary.

Manufacturer of product stipulates that these ratings were determined in accordance with the applicable Cool Roof Rating Council procedures. MAINTENANCE

PRECAUTIONS

TECHNICAL SUPPORT

AlphaGuard[™] Si 70

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 preventive 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.



Roofing & Building Maintenance

ww.tremcoroofing.com 3735 Green Road Beachwood, Ohio 44122 1.800.852.6013

50 Beth Nealson Drive Toronto, Ontario M4H 1M6 1.800.668.9879

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