AlphaGuard™ Si 100

High performance, high solids, one component, moisture cure silicone coating

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BENEFITS

Inorganic Compound

• Superior weathering characteristics

High Solids

• Yields more dry waterproofing than lower solids products

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 Reflective (White)

• Lowers rooftop temperatures resulting in less stress and potential energy savings

• CRRC Listed

DESCRIPTION

AlphaGuard Si 100 is a high solids, single component, breathable, liquid applied silicone roof system. AlphaGuard Si 100 meets or exceeds the requirements of ASTM D6694 Standard Specification for Liquid-Applied Silicone Coating Used in Spray Polyurethane Foam Roofing Systems.

BASIC USES

AlphaGuard Si 100 can be used to restore or repair approved roofing substrates.

PACKAGING

5 gal (18.9 L) pail 50 gal (189.2 L) drum *Packaged in 55 gal drum

COLOR

White, Dark Grey, Light Grey, Tan and Terra Cotta

GRADE

Brush, Roller, Spray, Squeegee & Backroll

STORAGE

12 months shelf life in unopened containers when properly stored.

DO NOT FREEZE

Recommended storage conditions is indoors in a ventilated, dry area removed from heat, open flame, ignition sources, and direct sunlight. Storage temperatures should range from 60-70°F (15-21°C) and must not drop below 32°F (0°C) or exceed 110°F (43°C).

On the job site, materials should remain on the pallet until use and be stored in a shaded, ventilated area. Materials should be covered with a light-colored, reflective tarp for protection against the elements. Allow for adequate air flow inside the pallets.

Shelf life could be affected if the product is not stored properly.

APPLICATION

Surface Preparation: Surface must be clean, dry, in sound condition, and free of dirt, debris, and contaminants. Existing wet roofing components must be identified and replaced. Deficient areas of existing system must be repaired. All repairs should be made with like materials matching the existing components and allowed to properly cure prior to application of liquid-applied products.

If the surface has a pre-existing coating, paint, or sealant, please contact Tremco for adhesion/compatibility testing and surface preparation recommendations.

EPDM substrates require application of AlphaGuard Si Prep Cleaner prior to application.

Mixing

Pails: Use a heavy duty corded power drill with Jiffy Mixer mixing blade. Mix until product is consistent in appearance and viscosity. Do not thin.

APPLICATION

CONTINUED

ACCEPTABLE ROOF SURFACES

COVERAGE RATES

TEMPERATURE/WEATHER **RECOMMENDATIONS**

CURE TIMES

SPRAY EQUIPMENT RECOMMENDATIONS

AlphaGuard™ Si 100

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 $1-1\frac{1}{2}$ 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. $(16-24 \text{ wet mils}) (0.4-0.6 \text{ L/m}^2)$ 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.



New, approved applications of spray polyurethane foam only

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: $1-1\frac{1}{2}$ gals / 100 sq. ft. $(0.4 - 0.6 \text{ L/m}^2)$ (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

SPRAY EQUIPMENT RECOMMENDATIONS

CONTINUED

CLEAN UP

PHYSICAL PROPERTIES

CODES & APPROVALS

AlphaGuard™ Si 100

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:

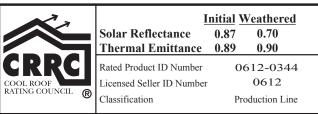
Roof Decks: Cementitious wood fiber, metal, poured-in-place gypsum, structural lightweight or lightweight insulating concrete, and wood decks (includes plywood, tongue and groove, etc.).

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 100

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.



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

220 Wicksteed Avenue Toronto, Ontario, M4H 1G7 1.800.668.9879 Tremco Roofing and Building Maintenance is part of Tremco Construction Products Group. Tremco is a US Registered trademark of Tremco CPG Inc.

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