

Cool-Sil™ HS

High Solids, Low VOC Silicone Roof Coating



PRODUCT OVERVIEW & FEATURES

Cool-Sil™ HS silicone roof coating is a solvent-free one-component, moisture curing silicone rubber roof coating system designed for use on existing smooth surface BUR, granulated cap sheet, well adhered acrylic coating, concrete, metal, sprayed-in-place polyurethane foam and various single-ply membrane roofing.

The system provides long-term protection because it resists weathering, aging, oxidation, wind-driven sand, rain and snow, the effects of ozone, ultraviolet radiation and the temperature extremes typically found on roofs. With its high solids content and absence of hydrocarbon solvents, Cool-Sil HS can be applied in excess of 40 mils in a single coat without blistering, while maintaining maximum adhesion. The Cool-Sil HS Solvent Free Roof Coating is available in White only.

This product may contribute towards a variety of LEED credit points.

Composition and Materials:

Cool-Sil HS silicone roof coating is a dispersion of silicone rubber. This coating is a one-part, ready-to-use material that can be applied easily to a dry, frost-free surface, and cures at normal temperature and humidity in 1 to 4 hours by reacting with moisture in the air. For applications with lower than normal temperature and humidity levels, expect the cure time to be longer.

Storage and Shelf Life:

Cool-Sil HS has a recommended shelf life of 12 months from date of manufacture when stored in unopened containers in temperatures between 40°F and 80°F.

APPLICATION

Surfaces to be coated with Cool-Sil HS coating must be properly prepared. All surfaces must be clean, dry and free of loose particles. The coating can be applied with standard airless spray equipment or applied by medium nap roller. For small touch-up work, a brush may be used.

Spray Equipment:

Due to the high viscosity of the material, a high-pressure airless sprayer capable of producing a minimum of 3500 PSI at the spray gun head should be used. The pump should have a minimum of 3 gallons per minute output rate. Always use components rated for pump pressure.

Hoses should be BUNA-N jacketed for prevention of moisture contamination. Hoses should have a minimum I.D. of 3/4" and an adequate working pressure. The spray gun should be high pressure (5000 PSI) with reverse-a-clean spray tip, having a minimum orifice of .030 and a 50° fan tip.

Clean Up:

Uncured silicone coating can be cleaned or equipment can be flushed with VM&P Naptha or Mineral Spirits.

MAINTENANCE

The life of the roof may be extended by regularly scheduled maintenance. A roof should typically be inspected at least twice a year. The roof immediately needs to be inspected following severe weather and extraordinary maintenance on roof-mounted equipment.

DATA & TESTING

As Supplied:

Appearance	White
Solid Content Volume (ASTM D-2369)	92% (+/-3)
Specific Gravity	1.24 @ 77°F (25°C)
Tack-Free Time	1-2 hrs.
Cure Time	1-4 hrs.
VOC	<50 grams/liter
Flash Point	141°F



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Data Sheet

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As Cured:

Durometer Hardness Shore A (ASTM D-2240)	37
Tensile Strength (ASTM D-412)	247 psi
Elongation (ASTM D-412)	237%
Permeability* (ASTM E-108)	10.7 perms
Tensile Set at 100% Elongation	Nil
Temperature Stability Range	-35°F to 212°F (-37°C to 100°C)
Accelerated Weathering QUV, 5,000 hrs. (ASTM G 154)	No Degradation
Flame Spread (ASTM E-108)	Class A
Initial Reflectivity** (ASTM C-1549)	89
Initial Thermal Emissivity** (ASTM C-1371)	90
SRI Value**	113
Packaging	5 and 55 gal containers

*20 mils @ 100°F (38°C) and 90% relative humidity

**Applies to Cool-Sil HS (white only)



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