



COMPETENT. COMPETITIVE. KOATINGS.

# SILICONES

WATERPROOFING COATINGS

## 100% SILICONE HIGH SOLIDS ROOF COATING

## TECHNICAL PRODUCT DATA

### BASIC USES & DESCRIPTION:

**100% Silicone High Solids Roof Coating** is a 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, 100% Silicone High Solids Roof Coating can be applied in excess of 40 mils in a single coat without blistering, while maintaining maximum adhesion. The 100% Silicone High Solids Roof Coating is available in four standard colors, including:

- ▶ White HS 3201
- ▶ Tan HS 3202
- ▶ Light Gray HS 3203
- ▶ Dark Gray HS 3204

(Custom colors available upon request at an additional charge)

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

### COMPOSITION AND MATERIALS:

100% Silicone High Solids 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:

100% Silicone High Solids Roof Coating has a recommended shelf life of 24 months from date of manufacture when stored in unopened containers and between 40°F and 80°F. Refer to product packaging.

### APPLICATION:

Surfaces to be coated with 100% Silicone High Solids Roof 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.

Revision Date: March 2018

## PACKAGING SIZES:

100% Silicone High Solids Roof Coating is available in 55 gallon and 5 gallon containers.

## 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.

## CLEAN UP:

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

## LIMITED WARRANTY INFORMATION - PLEASE READ CAREFULLY:

Available warranties include Full System Limited Warranties that range from 5 to 20 years. For warranty details, contact your Kool Coats representative.

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.

### TYPICAL PROPERTIES

As Supplied:		As Cured:	
Appearance:	White, Dark Gray, Light Gray, and Tan	Durometer Hardness, Shore A, points ASTM D-2240	37
Solids Content, Percent by weight ASTM D-1644:	92 (+/-3)	Tensile Strength, psi ASTM D-412	247
Specific Gravity, at 25°C (77°F):	1.24	Elongation, percent ASTM D-412	237
Tack-Free Time:	1-2 hrs.	Permeability <sup>1</sup> , perms ASTM E-96	10.7
Cure Time:	1-4 hrs.	Tensile, Set at 100 percent elongation	Nil
Volatile Organic Compounds:	<50 grams/liter	Temperature Stability Range, °C (°F)	- 37 to 100 (-35 to 212)
Flash Point	141°F	Accelerated Weathering, QUV, 5,000 hours ASTM G 154	No degradation
<sup>1</sup> 20 mils at 38°C (100°F) and 90 percent relative humidity  <sup>2</sup> Applies to HS 3201 white only		Flame Spread ASTM E-108	Class A
		Initial Solar Reflectivity <sup>2</sup> , ASTM C-1549	89
		Initial Thermal Emissivity <sup>2</sup> , ASTM C-1371	90
		SRI Value <sup>2</sup>	113

*The information reported herein are based upon information reasonably available to Kool Coats at the time publication, and are presented in good faith but are not to be construed as warranties or guarantees, expressed or implied.*

