

## SKYTITE® S-5001-H HIGH SOLIDS SILICONE ROOF COATING

### PRODUCT DESCRIPTION:

SKYTITE® S-5001-H Silicone Roof Coating is a moisture-cure silicone rubber roof coating system designed for use over spray-in-place polyurethane foam. Supplied as a one-part, ready-to-use material, it is available in four fade-resistant colors including dark gray, gray, beige and white.

### APPROVAL/SPECIFICATIONS:

- Meets Factory Mutual Class I ratings over metal decks, existing built-up roofs and concrete decks.
- Meets UL-790 requirements for Class A ratings on noncombustible decks and Class B combustible decks.

The controlled flow properties of the coating allow a continuous, even film to be applied even over rough surfaces. Once cured, SKYTITE S-5001-H Silicone Roof Coating forms a tough, flexible membrane that is integral with the structure itself. When properly applied, the cured coating provides a weather-tight seal that will protect polyurethane foam from degradation caused by weathering, aging, oxidation, wind-driven sand, rain and snow and the effects of ozone and ultraviolet radiation. The membrane remains flexible even after exposure to temperature extremes typically seen on roofs. The cured silicone rubber membrane is vapor permeable, having the ability to "breathe," and thus reduces both the chances of blistering caused by vapor pressure in the substrate and the possibility of damage to the substrate caused by entrapped water.

### As Supplied:

Appearance.....	White, Dark Gray, Light Gray, and Tan
Solids Content,	
Percent by volume ASTM D-2697-3.....	92(+/-2)
Specific Gravity, at 25°C (77°F).....	1.24
Tack-Free Time.....	1-2 hrs.
Cure Time.....	1-4 hrs.
Volatile Organic Compounds	
ASTM D-3960.....	<50 grams/liter
Flash Point.....	141F
As Cured:	
Durometer Hardness, Shore A, points ASTM D-2240.....	37
Tensile Strength, die C, psi ASTM D-412.....	247
Elongation, percent ASTM D-412.....	237
Permeability <sup>1</sup> , perms ASTM D-96.....	10.7
Tensile, Set at 100 percent elongation.....	Nil
Temperature Stability Range, °C (°F).....	- 37 to 100 (-35 to 212)
Weatherometer, QUV, 5,000 hours	
ASTM G-154.....	No degradation
Flame Spread ASTM E-108.....	Class A
Initial Solar Reflectance, ASTM C-1549/E-903.....	89.00%

<sup>1</sup> 20 mils at 38C (100F) and 90% relative humidity

### HOW TO USE:

When properly applied and cured, SKYTITE S-5001-H Silicone Roof Coating provides one of the fastest, easiest and most effective methods of keeping polyurethane foam roofs weather resistant. For best protection, apply the full polyurethane foam thickness and silicone basecoat the same day. Apply at temperatures above 40°F (4°C). Thinning is not recommended, and only when authorized by BASF. Clean up with Xylene ONLY.

### PREPARATION:

Surfaces to be coated with SKYTITE S-5001-H Silicone Roof Coating must be prepared and the coating applied as described in BASF printed instructions and guide specifications. All surfaces must be clean, dry and frost-free. SKYTITE S-5001-H Silicone

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Roof Coating is applied in two coats of contrasting colors at a rate of at least 1 gallon per 100 square feet for each coat, using the material as supplied. Apply using conventional, airless spray equipment (a medium-nap, solvent-resistant paint roller or brush may be used for touch-up work). Cure time for each coat may vary from 2 to 6 hours, depending on temperature and humidity. Unless a greater thickness is required by the Special Warranty selected, the minimum combined cured thickness of basecoat and topcoat must be 15 mils. Optional application of #11 standard roofing granules may be made according to BASF printed instructions to improve impact and wear resistance, to provide non-slip service walk areas, or for aesthetics.

## **MAINTENANCE:**

The life of a roof may be extended by regularly scheduled maintenance. A roof should be inspected at least twice a year and immediately following severe weather, extraordinary maintenance or work on roof-mounted equipment. If the coating becomes damaged, refer to BASF's printed instructions and specifications for repair information.

## **USABLE LIFE AND STORAGE, PACKAGING, LIMITATIONS:**

SKYTITE S-5001-H Silicone Roof Coating has a shelf life of 12 months from date of manufacture. It is available in 55-gal containers, and should not be used on the outside of cold vessels, coolers or freezers without an additional vapor retardant coating. This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

## **HEALTH AND ENVIRONMENTAL INFORMATION:**

BASF has an extensive Product Stewardship organization and a team of Product Safety and Regulatory Compliance (PS&RC) specialists available in each area. Consult MSDS and/or your local BASF representative.

## **LIMITED WARRANTY INFORMATION – PLEASE READ CAREFULLY:**

Various Special Warranties may be purchased from BASF Corporation. These include Full System Limited Warranties for 5 to 20 years and Coating-Only Limited Warranties for 5 to 20 years. Special warranties are available only when the roof system is applied by a BASF Approved Applicator in strict accordance with BASF's application specifications for the particular warranty package selected. If no special warranty is purchased, BASF's Standard Product Warranty applies. For details on all available warranties, contact your BASF Roofing Specialist.

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Certifications, approvals and listings are based on a specific design configuration and should be verified with BASF.

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