

OR 93HS

High Solids, Low VOC Silicone Roof Coating

Basic Uses & Description:

OR 93HS Solvent-Free Silicone Roof Coating is a one-component, moisture curing silicone rubber roof coating system designed for use one 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, OR 93HS can be applied in excess of 40 mils in a single coat without blistering, while maintaining adhesion. The OR 93HS Solvent Free Roof Coating is available in four standard colors, including:

- White
- Tan
- Light Gray
- Dark Gray

(Custom Colors available upon request at an additional charge)

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

Application:

Surfaces to be coated with OR 93HS 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.

Clean Up:

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

Packaging Sizes:

OR 93HS Silicone Roof Coating is available in 55 gallon and 5-gallon containers

Storage and Shelf Life:

OR 93HS has a recommended shelf life of 12 months from date of manufacture when stored in unopened containers and between 40°F and 80°F. Refer to product packaging.

Composition and Materials:

OR 93HS 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.

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 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.

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.

Typical Physical Properties

AS SUPPLIED

Appearance	White, dark/light gray, tan
Solids content-% by weight	ASTM D-1644 92(+/-3)
Flash Point	141°F
Specific gravity at 25°F (77°F)	1.24
Tack-free time	1-2 hours
Cure time	1-4 hours
Volatile organic compounds	<50 grams/liter

AS CURED

Durometer hardness, shore A points	
	ASTM D-2240 37
Tensile strength, psi	ASTM D-412 247
Elongation, percent	ASTM D-412 237
Permeability ¹ , perms	ASTM E-96 10.7
Tensile, Set at 100% elongation	Nil
Temperature stability range, °C (°F)	-37 to 100 (-35 to 212)

Accelerated weathering, QUV,	
5,000 hours	ASTM G-154 no degradation
Flame spread	ASTM E-108 Class A
Initial solar reflectivity ²	ASTM C-1549 89
Initial thermal emissivity ²	ASTM C-1371 90
SRI value ²	113

¹20 mils at 38°C (100°F) and 90% relative humidity

²Applies to OR98HS White Only

Limited Warranty Information-Please Read Carefully:

Various warranties may be purchased from Oak Ridge Foam & Coating Systems, Inc. Available warranties include full system limited warranties that range from 5 to 20 years. For warranty details, please contact your Oak Ridge Foam & Coating Systems, Inc. roofing specialist.

Substrate

PVC	61 Mils
Modified Bitumen	64 Mils
Metal	53 Mils
Single ply EPDM	61 Mils
TPO	61 Mils
Concrete	61 mils

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