



Foam & Coating Systems, Inc.

OR93HS

High Solids, Low VOC Silicone Roof Coating

Basic Uses & Description:

OR93HS Solvent-Free Silicone Roof Coating is a one-component, moisture curing silicone rubber roof coating system designed for use on 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, OR93HS can be applied in excess of 40 mils in a single coat without blistering, while maintaining adhesion. The OR93HS 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.

Composition and Materials:

OR93HS 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:

OR93HS 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.

Application:

Surfaces to be coated with OR93HS 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.

Typical Properties

As Supplied:

Appearance..... White, Dark Gray, Light Gray, and Tan

Solids Content,
Percent by volume ASTM D-2369..... .92(+/-3)
Specific Gravity, at 25°C (77°F) 1.24
Tack-Free Time 1-2 hrs.
Cure Time 1-4 hrs.
Volatile Organic Compounds <50 grams/liter
Flash Point 141°F

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

²Applies to white only

As Cured:

Durometer Hardness, Shore A, points ASTM D-2240.... 37
Tensile Strength, psi ASTM D-412..... 247
Elongation, percent ASTM D -412..... 237
Permeability¹ perms ASTDM E-96 10.7
Tensile, Set at 100 percent elongation..... Nil
Temperature Stability Range,^oC (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 Reflectivity², ASTM C- 1549..... 89
Initial Thermal Emissivity², ASTM C- 1371..... 90
SRI Value²..... 113

Packaging Sizes:

OR93HS Silicone 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 or equipment can be flushed with VM&P Naptha or Mineral Spirits.

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.

Manufacturer of High Performance Foam/Coatings & Application Equipment

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