

OR 74LS

Solvent Based Silicone Roof Coating

Basic Uses & Description:

OR 74LS is one-component, moisture-curing silicone rubber roof coating systems designed for use on sprayed-in-place polyurethane foam.

The system provides long-term protection because it resists weathering, aging, oxidation, wind-driven sand, rain and snow, the effects of ozone and ultraviolet radiation. The silicone membrane remains flexible even when exposed to extreme temperatures typically found on roofs. The OR 74LS Silicone Roof Coating is available in four standard colors, including:

- White
- Tan
- Light Gray
- Dark Gray

(Custom colors available upon request at an addition charge)

Composition and Materials:

OR 74LS 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 levels in 1-3 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.

Application:

Surfaces to be coated with OR 74LS 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.

Coverage: 80 Sq. Ft per gallon @ 20 mils

Suggested Primers: OR 711, OR PR811, OR E41, wet/green concrete OR T11

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 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(5000PSI) with reverse-a-clean spray tip., having a minimum orifice of .030 and a 50^{0-fan} tip.

Typical Properties:

	<u>Test</u>	
Appearance	White, dark/light gray and tan	
Solids content, percent by volume	ASTM D-1644	82.44%
Solids content, percent by volume	ASTM D-2697	68.9% (+/-2)
Specific Gravity at 25°C (77°F)	1.31	
Tack-free time	10-20 mins.	
Cure time	1-3 hours	
Volatile Organic Compounds	246 grams/liter	
¹20 mils @ 38° (100°F) and 90 % humidity		
²Applies to OR 74LS – white only		

AS CURED

Durometer hardness-Shore A	ASTM D-2240	70
Tensile strength	ASTM D-412	551 (+/-25)
Elongation, percent	ASTM D-412	186(+/- 10)
Permeability ¹ perms	ATSM E-96	7.9
Tensile, set @100% elongation	Nil	
Temp. 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	87
Initial thermal emissivity ²	ASTM C-1371	90
SRI value ²		113

Storage and Shelf Life:

OR 74LS has a recommended shelf life of 12 months from date of manufacture when stored in unopened containers and between 40°F and 80°F. Please refer to product packaging.

Packaging Sizes:

OR 74LS is available in 50 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 Naphtha 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 5-20 years. For warranty details, please contact your Oak Ridge Foam & Coating Systems, Inc. Roofing Specialist.

Specification Writers: A copy of the Application Specification for this product may be obtained from Oak Ridge Foam & Coating Systems, Inc. Customer Service.

The information reported herein are based upon information reasonably available to Oak Ridge Foam & Coating Systems, Inc. at the time publication, and are presented in good faith but be construed as warranties or guarantees, expressed or implied. 5/20

Manufacturer of High Performance Foam/Coatings & Application Equipment

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