

OR 80SLM

Silver Lining Membrane

Coating Description

100% solids, 2 components, spray applied, pure polyurea elastomer. OR 80SLM is a tough, rapid set; high build coating that is, VOC compliant and moisture tolerant. This coating performs with superior reflective qualities for cool roofing systems. Superior UV & Impact such as hail resistance and Miami Dade Approved.

Primary Application

- Protective coating for metal and built-up roofs
- Protective coating for urethane and expanded polystyrene insulation
- Protective coating for worn out EPDM roofing
- Secondary containment when applied over concrete, wood or geotextiles
- Protective coating for decorative products
- Wearing and waterproofing membrane for pedestrian decks
- Water proofing of buried, protected or unprotected roofs, walks and concrete walls, with or without spray applied foam insulation.
- Vertical or horizontal application
- Approved for external containment liner or food grade dry bulk goods

Chemical Resistance

Good hydrolytic stability to 300° F. Good resistance to inorganic bases, acids and hydrocarbon solvents. Fair resistance to oxygenated and chlorinated solvents. For higher chemical resistance use OR 70SS

Waterproofing Packaging

A 110-gallon kit consists of two (2) 55-gallon drums

Waterproofing storage life

12 months in unopened containers when stored in a dry location at 50-90° F (10-32° C)

Waterproofing Product Advantages

Features

Seamless	Monolithic waterproofing
Rapid set	Back in service sooner
High moisture tolerance	Long open application window
Hi temp range	Wide product applications
Easy high film builds	Reduced labor cost
100% solids	No VOC
Tough film	Abrasion resistant
Long coating life	

Application Data

Substrate must be sound, clean and free of dirt, debris and other contaminants. Oak Ridge Foam & Coating Systems, Inc. primers are used on most substrates. No primer is needed for newly applied or cleaned foam. OR811 or OR711 primer is recommended for bare metal, old foam, concrete, build up roofs, wood and EPDM. Don not apply below 35° F (1.7°C)

Coverage- 80 Sq. Ft per gallon @ 20 Mils

Thoroughly mix Part B of OR 80SLM prior to use and continue to mix. Care should be exercised to prevent cross contamination of the A & B.

Application Equipment

High pressure (2500PSI) plural component proportioning equipment with plural component spray gun. Minimum barrel temperature, 70° F and rising.

Minimum machine temperature 160° F, minimum machine pressure, 2200 psi. Spray tip requirement .01 or .02 size.

Density

Part A	9.09 lbs./gallon
Part B	8.90 lbs./gallon

Typical Physical Properties

	<u>Test</u>	<u>Values</u>
Tensile Strength	ASTM D412	4,500
Elongation	ASTM D412	400%
Permanent Set	ASTM D412	10% max
Hardness (shore D)	ASTM D2240	50
Taber abrasion, mg wt. loss C-17)	ASTM D4060	25 (1000 g, 1000 revs,
Taber abrasion, mg wt. loss revs, H-18)	ASTM D4060	630 (1000 g, 1000
Resistant to Cathodic Disbondment	ASTM G8	Pass
Tear Resistance lbs./in	ASTM D624	425
Modulus of Elasticity (psi)	ASTM D638	1250
Ratio A/B	1:1 by volume	
Viscosity A side	2200±500 cps @ 77° F ± 500	
Viscosity B side	1800±50 cps @ 77° F ± 150	
Flash point	Pensky Martins	>200° F (93.3)
VOC	ASTM 3960	0
Low Temp	ASTM D-1737	2@pass
Flexibility	Mandrel Bend	pass
Fire Resistance	(extinguish in <5 Sec)	
Tack Free	To touch	10-20 seconds
Recoat minimum	OR field test	<1 min
Recoat maximum	OR field test	1 hr./after priming
Full Cure	OR field test	5-7 days@70° F
Service Temp	OR field test	-40 + 300° F
Surface application temp	OR field test	40F – 120° F
Water vapor permeability	ASTM E-96	0.01 Perms
Moisture vapor trans	ASTM 4060	20 Perms
Pull test "concrete" failure	ASTM D-7234	375 PSI-concrete
Back to service	Field tests 1 hour	
Water absorption	ASTM D-471	.75%

Impact Resistance (Hail) UL 2218 Class 4
**Test was completed on a film sample with 20 mil thickness. **

Warranty/Disclaimer

The technical data and any other printed information furnished by Oak Ridge are true and accurate to the best of our knowledge. OR 80SLM conforms to in housed quality control procedures and should be considered free of defects. The data provided is believed to be reliable and is offered solely for evaluation. The use of the product is beyond the control of the seller; therefore, the buyer assumes all risk of use and handling whether done in a matter that is in accordance with the provided posted directions or not. Oak Ridge warrants OR 80SLM polyurea roof coating and primer to be free of



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defects and to meet published physical properties when cured and tested according to ASTM CDSB and Oak Ridge standards. Under this warranty, we will provide, at no charge, OR 80SLM roof coating and primer in standard packaging to replace any OR 80SLM roof coating and primer proven to be defective when applied according to our written instructions and in applications recommended us as a suitable OR 80SLM roof coating and primer. THIS BUYER SOLE AND EXCLUSIVE REMEDY. All claims concerning product defects must be made in writing within (6) six months of shipment. The absence of such claims in writing during this period will constitute a wave of all claims with respect to such product. This warranty shall be in lieu of any other warranty, expressed, or implied, including, but not limited to any warranty of MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

Disclaimer

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