



## Foam & Coating Systems, Inc.

# 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 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

### Waterproofing Color

Aluminum, dark gray, black, brown, green, custom colors are also available

### 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

|   | Test                       | Values                   |
|---|----------------------------|--------------------------|
| Tensile Strength                                      | ASTM D412                  | 2,850                    |
| Elongation  | ASTM D412                  | 400%                     |
| Permanent Set   | ASTM D412                  | 10% max                  |
| Hardness (shore D)                                    | ASTM D2240                 | 50                       |
| Taber abrasion, mg wt. loss (1000 g, 1000 revs, C-17) | ASTM D4060                 | 25                       |
| Taber abrasion, mg wt. loss (1000 g, 1000 revs, H-18) | ASTM D4060                 | 630                      |
| 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"                                  | ASTM D-7234                | 375 PSI-concrete failure |
| Back to service                                       | Field tests 1 hour         |                          |
| Water absorption                                      | ASTM D-471                 | .75%                     |

\*\*Test was completed on a film sample with 20 mil thickness. \*\*

### Warranty

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 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.

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**Manufacturer of High Performance Foam/Coatings & Application Equipment**

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