

# OR 93SLM

## Description

OR 93SLM is highly reactive two component polyurethane-urea hybrid based, solvent free membrane with excellent mechanical characteristics. The system exhibits combined excellent tensile strength, high elongation values, and good wear and tear propagation resistance. The membrane also provides lasting crack bridging properties.

Applied using specialist spray equipment, OR 93SLM will begin curing in seconds allowing vertical applications and rapid build up to the desired thickness. OR 93SLM retains a high degree of elasticity even at low temperatures.

## Surface Preparation

All surfaces should be prepared using standard industry practices. If there are any doubts about suitability, a small trial area should be applied.

**Suggested Primers:** OR 711, OR PR811, OR E41

## Mixing Instructions

OR 93SLM is designed for use through specialist two component spray equipment. Our Technical Service Department can advise on choice of equipment and optimum processing conditions.

Both components should be raised to the processing temperature and agitated well before use to ensure an even color.

## Application Details

Surfaces should be primed, if needed, with the correct primer. OR 93 SLM is then applied evenly through the correct processing equipment using a 'sweeping' action ensuring a consistent even application is achieved. Over-coating of the membrane can take place after approximately 2 hours of application and up to a maximum of 48 hours.

If applying OR 93SLM and the first coat has been allowed to cure for more than 24 hours, then cleaning and re-priming is recommended to ensure adequate adhesion is achieved for the subsequent coat. OR 93SLM may be applied down to a temperature of 32°F providing the temperature is rising and at least 6°F above dew point. The membrane will accept light traffic after 2 hours.

## Handling and Storage

Stored in the original sealed drums in a dry place at the recommended temperature, 59-77°F, 6 months.

## Typical Polymer Properties

These are typical values and should not be construed as specifications.

### Typical Component Properties

	Units	OR 93SLM Part A	OR 93SLM Part B	Test Method
Color		yellow liquid	black liquid	Visual
Viscosity	cPs	500-800(at 75°F) (24°C)	400-800 (at 75°F) (24°C)	Brookfield
Specific Gravity	g/cc	1.14	1.04	

## Typical Reaction Characteristics

	Units	Results	Test method
Gel time	Seconds	6-8	Sprayed
Tack free	Seconds	10-12	Sprayed
Full-service	Hours	2	

## Recommended Process Conditions

The Polyol component must be mixed until homogenous before use. The material should be processed through a two-component high-pressure dosing machine using impingement mixing technology at a feed rate of 0.5 to 2 gallons/minute through a round nozzle.

	Units	Limits
OR 93SLM-B	Volume	1
OR 93SLM-A	Volume	1
Solids Content	%	100
Typical component Temp. <sup>(1)</sup> both tanks & hoses	°C(°F)	55-75 (130-170)
Theoretical coverage	Ft. <sup>2</sup>	1600 per gallon @ 20
Mils Typical component Pressures <sup>(1)</sup>	Psi	1800-2500
Hardness	Shore D	50
Density	g/cc	1.01
Tensile	psi	5630
Elongation	%	140
Tear	pli	340
Taber Abrasion	mg/rev.loss	95/100
Impact Resistance (Hail)	Class 4	UL 2218

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**Coverage:** 80 Sq. Ft. per gallon @ 20 mils

Recommended temp settings for hose and reactor 160

Pressure settings 1800-2200

## Product Stewardship

Oak Ridge Foam & Coating Systems, Inc has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our Product Stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success our Product Stewardship program rests with each and every individual involved with Oak Ridge Foam & Coating Systems, Inc products – from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

## Safety Considerations

Safety Data Sheets (SDS) are available from Oak Ridge Foam & Coating Systems, Inc. SDS are provided to help customers satisfy their own handling, safety and disposal needs and those that may be required by locally applicable health and safety regulations. SDS are updated regularly, therefore, please request and review the most current SDS before handling or using any product.



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