



Foam & Coating Systems, Inc.

## OR 90WPM

### Waterproofing Membrane

#### Waterproofing Description

A 100% solid, 2 components, spray applied, pure polyurea elastomer. Waterproofing membrane is a tough, rapid set, high build coating, VOC compliant and moisture tolerant. This product exhibits good UV stability.

#### Primary Application

- Protective coating for metal and built-up roofs.
- Protective coating for concrete & steel tanks/clarifiers for Abrasion & water proofing.
- Damp proofing membrane/Excellent protective coating for overall board stock foams.
- Secondary containment when applied over concrete, wood or geotextiles.
- 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.
- USDA/FDA approved for external containment or food grade dry bulk goods.
- Exterior pipe coating.

#### Waterproofing Color

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

#### Chemical Resistance

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

#### Waterproofing Packaging

A 110-gallon kit consists of two 55-gallon drums.

#### Waterproofing storage life

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

#### Waterproofing Product Advantages

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	Fire resistant membrane

#### Waterproofing Application Data

**Coverage** 80 Sq. Ft. per gal @ 20 mils

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.

#### Mixing

Thoroughly mix Part "B" of WPM prior to use. Extreme care should be exercised to prevent cross contamination of the A&B components.

#### 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 is .01 or .02 size.

#### Density

Part A	8.75 lbs./gallon
Part B	9.2 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	ASTM D4060 25
(1000 g, 1000 revs, C-17)	
Taber abrasion, mg wt. loss	ASTM D4060 630
(1000 g, 1000 revs, H-18)	
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%

#### Warranty

The technical data and any other printed information furnished by Oak Ridge are true and accurate to the best of our knowledge. OR 90WPM 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 waterproofing lining 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, Waterproofing polyurea roof coating and primer in standard packaging to replace any Waterproofing polyurea roof coating and primer proven to be defective when applied according to our written instructions and in applications recommended us as a suitable Waterproofing polyurea roof coating and primer. THIS BUYER SOLE AND EXCLUSIVE REMEDIES. 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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