

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 Compliant 21CFR175.300 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 (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	10-12 seconds
Recoat minimum	OR field test	<1 min
Recoat maximum	OR field test	24 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- failure
Back to service	Field tests 1 hour	
Water absorption	ASTM D-471	.75%

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