



ORWPM (Waterproofing Membrane)

Waterproofing Description

A 100% solids, 2 component, spray applied, pure polyurea elastomer. Waterproofing membrane is a tough, rapid set, high build coating that is fire retardant, VOC compliant and moisture tolerant.

Primary Application

- Protective coating for metal and built-up roofs
- Protective coating for urethane and expanded polystyrene insulation
- 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
- NSF approved for internal containment liner 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 160° F. Good resistance to inorganic bases, acids and hydrocarbon solvents. Fair resistance to oxygenated and chlorinated solvents. For higher chemical resistance use ORSSS.

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

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|-------------------------|------------------------------|
| 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 build | Reduced labor cost |
| 100% solids | No VOC |
| Tough Film | Abrasion resistant |
| Long coating life | Fire resistant membrane |
| Self Extinguishing | |

Waterproofing Application Data---Coverage @ 40 mils=40sq ft

Substrate must be sound, clean and free of dirt, debris and other contaminants. EFP LLC 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

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|--------|-----------------|
| Part A | 8.75 lbs/gallon |
| Part B | 9.2 lbs/gallon |

Typical Physical Properties

Test	Values
Tensile Strength	ASTM D-412 2700
Elongation	ASTM D-412 500%-600%
Permanent Set	ASTM D-412 10% max
Hardness (shore A)	ASTM D-2240 80±3
Tear Resistance lbs/in	ASTM D-624 350
Ration 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	EFP field test <1 min
Recoat maximum	EFP field test 4 hr/after priming
Full Cure	EFP field test 5-7 days@70° F
Service Temp	EFP field test -40 + 300° F
Surface application temp	EFP field test 40F – 120° F
Water vapor permeability	ASTM E-96 0.02
Moisture vapor trans	ASTM 4060 20
Pull test "concrete"	ASTM D-930 375 PSI-concrete failure
Back to service	EFP Field tests 4 hours
Water absorption	ASTM D-471 .75%

Warranty

The technical data and any other printed information furnished by Enhanced Flooring Products LLC (EFP LLC) are true and accurate to the best of our knowledge. ORWPM 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. Coating EFP LLC 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 EFP LLC standards. Under this warranty, we will provide, at no charge, Waterproofing polyurea roof coating and primer in standa4rd 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 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 waive 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. 01/09