



Data Sheet | Eco-Smart Membrane WS M3

WS M3 Tank and Vessel Membrane is an easy-to-use, liquid-applied, waterproof material specially designed to protect sprayed-in polyurethane foam coated structures from physical degradation from weathering and UV radiation. At an ideal dry film 12 to 14 mils per coat, WS M3 is a perfect fix for sealing any minor cracks and imperfections. With exceptional aging properties, future ruptures, cracks and delaminating are prevented, increasing durability and providing long-lasting protection for any polyurethane foam insulated structures. Its unique molecular structure allows for substrate movement, accommodation to sudden temperature fluctuation and is able to perfectly utilize its tensile strength and elongation abilities. With the application by experienced, independent, certified applicators, WS M3 Tank and Vessel Membrane provides successful coverage on oil tanks.

WS M3 Tank and Vessel Membrane is available in several standard colours, including fire resistant versions. Custom colours are available depending on minimum lead times and volume.

Uses

WS M3 Tank and Vessel Membrane becomes an integral piece of a substrate as it protects urethane foam insulation:

- Of oil tanks and other structures from deterioration by UV radiation, leakage or moisture intrusion and deterioration caused by ingress of water, acid rain and pollutants
- By reducing maintenance costs associated with unprotected urethane foam insulation
- By prolonging the life of the insulation
- By preventing scaling and spalling

Features

- High performance and excellent coverage
- Reduced thermal shock of coating relating to rapid temperature fluctuations
- Excellent tensile strength and elongation abilities
- Bridges hairline cracks up to 1/16"
- Water, fade, UV resistant
- Strong, rubbery coating seals and waterproofs hairline cracks seamlessly
- Resistant to mildew, fungus, moss and algae growth
- Highly breathable
- Resistant to harsh conditions due to exhaust gases, acid rain and airborne pollutants

Surface Preparation

For new surfaces (shop applications) of WS M3, ensure that the surface is clean, dry, stable and free of any dust, dirt, oil, grease and loose particles. Remove surface contaminants by power washing and allow to dry before applying. For field application and repairs using WS M3, ensure that the surface is clean, dry, stable and free of any dust, dirt, oil, grease and loose particles. Remove surface contaminants or detergents by power washing and allow to dry before applying. Treat cracks and holes as with new construction.



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Application Process

WS M3 is ready to use straight from the container, eliminating the need for other paints or solvents. Thoroughly stir before application while using care to prevent excessive entrapment of air. WS M3 may be applied using an airless spray, power roller or conventional roller. Do not apply to surfaces with excessive moisture content, such as during damp or rainy weather. Do not apply in temperatures below 5°C (42°F). Apply in liberal coats and check application using a wet film gauge to ensure the minimum wet film thickness is obtained. To adequately seal, work product well into crevices and holes. To finish, back roll in a downward motion.

General Data

<i>Type</i>	Acrylic Elastomeric
<i>VOC</i>	Less than 30 g/L
<i>Volume Solids</i>	55-65% (varies by color)
<i>Coverage</i>	60 ft./gallon @ 12 mils DFT
<i>Film Thickness (dry)</i>	12 to 14 mils
<i>Number of Coats</i>	Two coats
<i>Viscosity</i>	20,000 CPS @ 6RPM
<i>Flash Point</i>	N/A
<i>Finish</i>	Flat
<i>Surface Temperature at Application</i>	Min. 5°C/42°F Max. 35°C/95°F
<i>Thin with</i>	Do not thin
<i>Water Vapour Transmission</i>	2.9 Perms (ASTM E98-80BW)
<i>Tensile Strength</i>	130 psi @ WFT 13 (ASTM D412)
<i>Elongation</i>	310% (ASTM D412)
<i>Fire Resistance Rating (FR)</i>	10 (ASTM E84-01)
<i>Storage Temperature</i>	Min. 5°C/41°F Max. 32°C/90°F

Power Roller

Apply product generously and frequently monitor application using a film thickness gauge to maintain proper wet film thickness.

Conventional Roller

Keep roller saturated with material and apply product in two crosshatch coats at right angles and frequently monitor application using a film thickness gauge to maintain proper wet film thickness. Allow the first coat to dry for a minimum of 3 hours or until surface dries, prior to a second application.



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Airless Spray

Generously apply in a crosshatch pattern and back roll to prevent a pinhole surface and frequently monitor application using a film thickness gauge to maintain proper wet film thickness. Use equipment that is able to maintain a 2,500 to 2,700 psi at the tip.

- Orifice size: 0.019" (0.48 mm) to 0.023" (0.58 mm)

Thinning/Cleanup

Do not use thinners as it will reduce the sealing ability of the product. Do not add other paints or solvent with this product. Wash all equipment in a warm detergent solution then rinse with water. Spray equipments should be given a final rinse using mineral spirits to prevent rusting. Use completely or properly dispose. Please return totes to PSC. Local disposal requirements vary; refer to your local environmental agencies for more information on disposal options. Recycle any empty containers.

Environmental and Safety Information

Avoid contact with eyes, prolonged or repeated contact with skin, and inhaling vapours, spray mist or sanding dust. Use product with adequate ventilation. Wear eye protection and gloves during application. When spraying, a dust/particulate respirator approved by NIOSH must be worn. Close container between uses.

First Aid

Periodically move to fresh air to minimize any effects by inhalation of vapours and spray mist. In case of eye contact, rinse immediately with water for 15 minutes and consult a physician. For skin contact, wash thoroughly with soap and water. In case of ingestion, seek medical aid immediately—refrain from physically expelling product by vomiting.

Drying Time WFT @ 50% R.H.

<i>Substrate temperature</i>	<i>Recoat After</i>	<i>Full Cure</i>
5°C/41°F	3 hours	24 hours
10°C/50°F	1 hour	12 hours
20°C/68°F	30 minutes	6 hours

Spills

Absorb any spilled products using an inert material. Follow the instructions specified in Thinning/Cleanup.

Shelf Life

Unopened, WS M3 has a shelf life of 6 months.



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Limitations

- Do not use for immersion service
- Below grade applications have not been tested

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Packaging

WS M3 5 USG pails
 55 USG drum
 244 USG totes (fill weight 1236 kg)

Warranty Disclaimer

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