



# DATA SHEET

## WSM3 TANK AND VESSEL MEMBRANE

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



## GENERAL DATA

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

## 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.

## 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.



### **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.

### **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 equipment should be given a final rinse using mineral spirits to prevent rusting. Use completely or properly dispose. Please return totes to Weatherskin if possible. 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.**

## GENERAL DATA

SUBSTRATE TEMP.	RECOAT AFTER	FULL CARE
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.

### Limitations

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

This information is disclosed without warranty, representation, inducement or license of any kind and is believed to be as accurate according to Weatherskin Corporation's knowledge and other primary sources. Weatherskin Corporation does not assume any legal responsibility for use of reliance on same. Customers are encouraged to conduct their own tests.

### Packaging

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

### Warranty Disclaimer

We guarantee our Products adhere to the specifications of Weatherskin Coatings. Weatherskin Coatings makes no warranty or guarantee, expressed or implied, including warranties of fitness for a particular purpose or merchantability, respecting its Products. Liability, if any, is limited to refund or purchase price or replacement of the Product. All consequential damages, labor and cost of labor are hereby excluded.