



Data Sheet | Eco-Smart Membrane WS M4

WS M4 Metal Specific Membrane is an easy-to-use, liquid-applied, waterproofing material specially designed to protect metal roof surfaces. WS M4 becomes an integral piece of a substrate. It bonds well and increases durability and protection for any metal surfaces. It has a unique molecular structure, that allows for substrate movement, and accommodation for sudden temperature fluctuation, is able to perfectly utilize its tensile strength and elongation abilities and allow the substrate to breathe, preventing damage from moisture and air born pollutants, including, fungi, mold and bacteria. All application is by experienced, independent certified applicators.

WS M4 Metal Specific Application Membranes provide superior coverage on steel roofs. Standard colors are black, white and grey. With specialty colors available, depending on minimum lead times and volume.

Uses

WS M4 Metal Specific Application Membrane, becomes an integral piece of the roof or metal substrate that it is applied to.

- Roofing substrates based from metal or aluminum
- Walls, vertical, metal or aluminum
- By reducing maintenance costs and building up keep
- Prolonged protection of substrate
- Rejuvenate old or worn surfaces
- Resists UV radiation
- Prevents future leakage or moisture intrusion

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



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General Data

<i>Type</i>	Acrylic Elastomeric
<i>VOC</i>	Less than 23 g/L
<i>Volume Solids</i>	63% (varies by color)
<i>Coverage</i>	60 ft./gallon @ 12 mils DFT
<i>Film Thickness (dry)</i>	14 to 16 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 (for FR)</i>	10 (ASTM E84-01)
<i>Storage Temperature</i>	Min. 5°C (41°F) Max. 32°C (90°F)

Surface Preparation

For new surfaces (shop applications) of WS M4, 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 M4, 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 M4 Metal Specific Application 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 M4 may be applied using an air-less 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).



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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, or cross that with airless sprayer.

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. Finish in a downward motion using a dry roller.

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 can maintain a 2,500 to 3,500 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's should be given a final rinse using mineral spirits to prevent rusting.

Use completely or properly dispose. Please follow local disposal requirements. 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 vapors, 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 vapors 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.



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Drying Time WFT @ 50% R.H.

<i>Substrate temperature</i>	<i>Recoat After</i>	<i>Full Cure</i>
5°C/41°F	5 hours	24 hours
10°C/50°F	3-5 hours	15 hours
20°C/68°F	0.5 hours	9 hours

Spills

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

Shelf Life

Unopened, WS M4 has a shelf life of 6 months.

Limitations

- Do not use for immersion services
- Below grade applications have not been tested for WS M4

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Packaging

WS M4	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.