



# DATA SHEET

## WSM1 ABOVE GROUND MEMBRANE

Water-based Acrylic WS M1 Elastomeric Waterproofing Membrane is a multi-use, extremely durable acrylic coating. At an ideal wet film thickness of 10-14 mils per coat (8-10 mils dry film finish per coat), WS M1 is a perfect fix for sealing any minor cracks and imperfections. With exceptional aging properties, future ruptures, cracks and de-laminating are prevented, and provides long-lasting protection to the substrate surface. Its unique properties allow for substrate movement and accommodation to sudden temperature fluctuation. WS M1 is to be used in tandem with the instructions outlined in the following Product Information Sheets. WS M1 creates a strong, solar reflective and UV resistant coating able to withstand and encapsulate mold, fungi and mildew growth.

WS M1 Elastomeric Waterproofing Membrane is an easy-to-use, liquid-applied, waterproof smart material formulated to cure into a seamless, heavy-duty, elastomeric coat to seal cracks and bridge small gaps. For larger imperfections, use Reinforcing Fabric as stated in the instructions.

## USES

**WS M1 becomes an integral component to the construction of any structure as it bonds to a substrate. Ideal for commercial and industrial use, WS M1 Elastomeric Waterproofing Membrane seals and waterproofs:**

- Grain Bins
- Agricultural structures
- Leaking metal roofs and metal walls
- Stucco and block walls
- Building materials (Includes stucco, bricks, concrete, wood, plywood, OSB, vinyl, galvanized steel, exterior siding, fibre cement siding, asphalt coatings, shingles, ICF and polyurethane foam)

## FEATURES

- **Single product capable for waterproofing a variety of different materials providing a more economical alternative to current procedures/products**
- **Flexible at low temperatures**
- **Exceptional elongation properties**
- **Bridges gaps up to 1/16"**
- **High solids content**
- **Low VOC**
- **Non-toxic and environmentally friendly**
- **Highly alkaline resistant**
- **Does not sustain microbial and algae growth**
- **UV, acid rain and mildew resistant**
- **Protects structure from chemical damage caused by salts and acid rain**



## GENERAL DATA

Type	Acrylic Elastomeric
VOC	Less than 23 g/L
Volume Solids	55-65% (varies by color)
Tint Bases	May be tinted
Standard Color	Black/ Medium Base/ Ultra Deep/ Deep/ Pure White
Coverage	200 approx. ft./gallon
Film Thickness (wet)	8-10 mils per gallon
Film Thickness (dry)	5-7 mils per gallon
Drying time at 20°C (68°F)	Recoat after 2 hours
Dries by	Full cure @ 24 hours
Viscosity	20,000 CPS @ 6RPM
Flash Point	N/A
Sheen	Matte
Surface Temperature at Application	Min. 5°C/42°F Max. 35°C/95°F
Thin With	Up to 5% with clean water (for priming, when required)
Storage Temperature	Min. 5°C/41°F Max. 32°C/90°F

## Surface Preparation

Prior to the application of WS M1, ensure that the surface is clean, dry, free of any dust, dirt, peeling paint, loose masonry and rust, release agents, efflorescence, mildew and stains to increase the quality of adhesion. Dull any glossy areas and power wash or scrub areas that are not weathered using a strong detergent and remove surface salts. For mildew removal, scrub using a wash designed for mildew removal according to the manufacturer instructions.

## Cracks and Expansion Joints

Use Reinforcing Fabric to seal larger cracks and expansion joints prior to the application of WS M1. Reinforcing Fabric should be cut to overlap the sides of the crack and expansion joints by 3" (7.5 cm). Apply the first coat of WS M1. Place fabric on the center of the substrate surface, then press the fabric into the wet coating. Allow the coat to dry for a minimum of 2 hours before building up coats. Repair large cracks or holes on masonry surfaces before product application.

## Concrete Application

Cure concrete for a minimum of 14 days. Using WS M1 may diluted with 5% water, prime concrete surface and let dry for a minimum of 2 hours before applying the next coat. Remove all dirt using a wire brush by scrubbing then power wash.



### Asphalt Application

Ideal application using WS M5 Lite Elasto Roof membrane.

### Metal Application

Using a detergent, power wash the metal surface and rinse thoroughly. Allow to dry before coating. May clean up by sanding and scuffing, if required depending on surface conditions. Rinse thoroughly then apply.

### Wood Preparation

Remove any dirt, loose paint and dust from wooden surface by scrubbing or power wash. Use a detergent if necessary. Sand wood using a rough grid sand paper for a smoother surface. Rinse with water and let dry. Treat cracks and expansion joints as stated above.

### Application Process

WS M1 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 M1 may be applied using an airless sprayer, roller or brush. It may be applied to complete a dry film thickness of 30 mils. 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).

### Application by Roller

Keep roller saturated with material and apply product in two crosshatch coats at right angles. 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.

### Airless Sprayer

Generously apply in a crosshatch pattern to prevent a pinhole surface. Surface texture and profile will cause variations in the coverage of the product. 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)**

### Drying time WFT @ 50% R.H.

## GENERAL DATA

SUBSTRATE TEMP.	RECOAT AFTER	FULL CARE
5°C/41°F	8 hours	4 days
10°C/50°F	4 hours	2 days
10°C/50°F	2 hours	1 day



### **Thinning/Cleanup**

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. Do not use thinners on finishing coats as it will reduce thinning ability of the product. Do not add other paints or solvent with this product. Use completely and dispose properly. 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 or sanding. When sanding or 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.

### **Spills**

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

### **Shelf Life**

Unopened, WS M1 has a shelf life of 12 months.

### **Limitations**

- **Do not use for applications below grade**
- **Do not use for immersion service**
- **Do not apply if precipitation or freezing temperatures are expected before a full cure may be achieved**
- **Do not store at 5°C (42°F) or above 32°C (90°F)**

### **Maintenance**

WS M1 requires no maintenance. If coating should be damaged, repair by re-applying another coat over any affected areas after proper surface preparation procedures are applied.

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## Packaging

WS M1	36 x 5 USG pails on a pallet
	5 USG pails
	55 USG drum
Reinforcing Fabric	12 rolls/case

## 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.