



# DATA SHEET

## WSM2 WATERPROOFING MEMBRANE

WSM2: Waterproofing membrane is a cold-applied, sun-safe, aqueous borne coating with elastomeric properties. It is formulated to be extremely strong and impact resistant. The coating is designed for long-lasting performance and protection at an extremely wide range of temperatures. When applied at a wet film thickness of 40 mils, WSM2 is designed for long-lasting impermeable waterproofing (0.05 perms) When applied at a wet film thickness of 10-20 mils, WSM2 acts as a semi-impermeable vapor/air barrier. (9.2 perms @ 10 mils WFT, 0.7 perms @ 20 mils WFT). The product is easy to use and simple to clean, with almost zero splash-back or waste produced. Installers can spray the product using an airless sprayer, brush, or roller. The product is ideal for bridging gaps of 1/16" @ 20 WFT, and up to 1/8". For larger imperfections, use Reinforcing Fabric as stated in the application instructions. WSM2 is formulated to withstand UV, acid rain, salts, high toxicity soil, mold, fungi, and bacterial growth. The product has extremely low VOC content, is non-hazardous and is considered Eco-friendly.

**Fire Resistant (FR) additive available upon request**  
**Quick Cure (QC) additive available upon request**

### USES

- **Concrete foundations, footings and slabs**
- **Brick and mortar foundations, footings and slabs**
- **OSB and plywood structures and foundations**
- **ICF, EIFS and polystyrene foam substrates**
- **Garden and flower-box lining**
- **Screw piles, footings, retainer walls and posts**
- **Buried Tanks and vessels**
- **Above grade exterior vapor/air barrier**
- **Elevator shafts and underground tunnels**
- **Stationary farm and outbuilding components**





## GENERAL DATA

### BRAND PRODUCT

PRODUCT WARRANTY

TYPE

COLOR

SHEEN

SOLIDS

ODOR

APPLICATION

SPRAYER TYPE

WATERPROOFING THICKNESS

VAPOR BARRIER THICKNESS

STORAGE TEMP

TACK FREE

RECOAT

CURE TIME

MINIMUM APPLICATION TEMP

MINIMUM OPERATING TEMP

MAXIMUM OPERATING TEMP

MAXIMUM VOC CONTENT

APPROX: COVERAGE @ 10 MILS

APPROX: COVERAGE @ 20 MILS

APPROX: COVERAGE @ 40 MILS

ADHESION TO COMMON MATERIALS

CRACK BRIDGING

ELONGATION

TENSILE STRENGTH

CONCRETE ADHESION

ANTIFUNGAL / BACTERIA RESISTANCE

FLAME SPREAD

SMOKE DEVELOPMENT

RADIANT HEAT RATING

VAPOR PERMEABILITY

WATER ABSORPTION

SOIL DEGRADATION

### WEATHERSKIN WSM2: WATERPROOFING

25 YEAR AVAILABLE

ACRYLIC POLYMER

BLACK, GREY, WHITE

MATTE

55-65%

NONE

AIRLESS SPRAYER/ROLLER

2600 PSI MINIMUM (0.019" - 0.023" TIP)

40 MILS WFT 25 MILS DFT

10-20 MILS WFT 6-13 MILS DFT

40F / 5C TO 95F / 35C

10 MINUTES @ 59F / 15C

2 HOURS @ 59F / 15C

24 HOURS @ 59F / 15C

34F / 1C

-8F / -50C

250F / 120C

WHITE, 0 G/L - BLACK 23 G/L

150 SQ.FT / GALLON

75 SQ.FT / GALLON

38 SQ.FT / GALLON

AGGRESSIVELY ADHERES TO ALL MATERIALS TESTED

1/8TH INCH @ 40 MILS WFT

310%

395 PSI @ 12 MILS WFT

PASSED - COHESIVE BONDING ACHIEVED

NO GROWTH DETECTED

10 WITH FR ADDITIVE

5 WITH FR ADDITIVE

RADIAL PANEL INDEX RATING: 10

0.05 PERMS @ 40 MIL WFT 9.2 PERMS @ 10 MIL WFT

NO BLISTERING, NO SOFTENING, NO BLEED

100+ YEARS LIFE EXPECTANCY



COMPOST DEGRADATION  
 UV TOLERANCE  
 VISCOSITY  
 SPECIFIC GRAVITY  
 PH  
 THIN WITH  
 CLEANUP  
 SHELF LIFE  
 ICF COMPATIBLE  
 FLAMMABILITY  
 WATER / CONTAMINANT RATING

|                                       |
|---------------------------------------|
| PASSED                                |
| INDEFINITE (LESS THAN 1% ANNUAL FADE) |
| 20,000 PS @ 6RPM                      |
| 1.35 - 1.45 G/CM3                     |
| 8-9                                   |
| UP TO 5% WATER                        |
| SOAP & WATER                          |
| 12 MONTHS                             |
| YES                                   |
| NON FLAMMABLE                         |
| NON-HAZARDOUS                         |

### Surface Preparation

Prior to the application of WSM2, ensure that the surface is clean, dry, stable and free of any dust, dirt, peeling paint, loose masonry, rust, release agents, efflorescence, mildew and stains to increase the quality of adhesion. Dull any glossy areas and scrub areas that are not weathered using a strong detergent to remove surface salts. For mildew removal, scrub using a wash designed for mildew removal according to the manufacturer's instructions.

### Cracks and Expansion Joints

Use appropriate polyurethane caulking or mastic to seal larger cracks and expansion joints. 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 WSM2. Place fabric on the center of the crack then press the fabric into the wet coating. Allow the coat to dry for a minimum of 2 hours before additional coats. Repair large cracks or holes on masonry surfaces before product application.

### Application Process

WSM2 is ready to use straight from the container. Thoroughly stir before application while using care to prevent excessive entrapment of air. WSM2 may be applied using an airless sprayer, roller or brush. It may be applied up to a wet film thickness of 40 mils in a single coat, although it is recommended to apply the product in 2 20 mil coats to increase the rate of cure time. Do not apply to surfaces with excessive moisture content, such as during damp or rainy weather. Do not apply in temperatures below 1°C (41°F). A protection board or insulation may be applied to WSM2 after a full cure (24 hours). Backfill can be done immediately after the installation of the protection board or insulation. For best adhesion results on concrete and other porous surfaces, WSM2 should be diluted with 5% water, and first applied as a thin primer coat.

### Application by Roller

Keep roller saturated with material and apply product in two crosshatch coats at right angles. Allow the first coat to dry prior to a second application. Corporation does not assume any legal responsibility for use of reliance on same. Customers are encouraged to conduct their own tests.



## **Product Use (EIFS & WATERPROOFING SYSTEMS)**

**EIFS System:** Coat substrate with up to 20 wet mils of WSM2: Waterproofing before applying adhesive layer for foam insulation board, using Weatherskin reinforcing fabric integrated over all present substrate board seams and voids. After foam is properly installed, apply a 20 mil WFT layer of WSM2: Waterproofing with Weatherskin reinforcing fabric immersed throughout creating a highly durable adhesion coat for subsequent application layers.

**Waterproofing System:** Coat substrate with up to 40 wet mils of WSM2: Waterproofing before applying adhesive layer for foam insulation board. Depending on the project, another layer of WSM2: Waterproofing may be requested to be applied in order to protect the foam insulation board from damages. If requested, apply this layer a minimum of 16 mil, wet film thickness. For the Weatherskin:Waterproofing System, and Weatherskin:EIFS (Exterior Insulation Finishing System) a variety of Dupont (DOW Chemicals) extruded polystyrene insulation board products are recommended and warranted by Weatherskin when used in accordance with the full systems. Contact Weatherskin for assistance in determining a proper Dupont insulation board for your project. For the Weatherskin: Waterproofing System a variety of DELTA rain-screen and drainage mats are recommended and warranted by Weatherskin, when used in accordance with the full Weatherskin: Waterproofing System. Contact Weatherskin for assistance in determining a proper DELTA rain-screen or drainage matt product for your project.

**Insulating Foam Installation:** Apply Weatherskin: Concrete Modifier with a saw toothed trowel to the vertical or horizontal surface behind your rigid foam board, leaving both vertical ridges and voids, allowing any water that penetrates behind the panel a cavity to escape. See Weatherskin: Concrete Modifier Technical Data Sheet for details.

## **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 minimum of 2600 PSI at the tip.

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

## **Thinning/Cleanup**

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. Do not use thinners or solvents in the material. Thin only with water. Disposal requirements vary; refer to your local environmental agencies for more information on disposal options. Recycle any empty containers.

## **Spills**

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

## **Limitations**

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



### Limitations

- Do not use for immersion purposes.
- Not recommended to apply if high humidity (excess of 70%) or moisture is expected.
- Not recommended to apply if lasting freezing temperatures are expected before a full cure may be achieved.
- Do not store below 5°C (41°F) or above 32°C (90°F).

### Maintenance

WSM2 requires no maintenance. If coating should be damaged, repair by reapplying another coat over any affected areas after proper surface preparation procedures are followed.

### Packaging

1-USG can, 5-gallon pail, 55-gallon drum, 275-gallon tote.

#### Disclaimer

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.

#### Warranty Disclaimer

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