DATA SHEET

WSM8 FIRE RESISTANT MEMBRANE

WSM8 Fire Resistant Membrane is best used in applications requiring additional protection from fire and can be sprayed in confined spaces. At an ideal wet film thickness of 10-14 mils per coat (8-10 mils dry film finish per coat), WS M8 is a perfect fix for sealing any minor cracks and imperfections. With exceptional aging properties, future ruptures, cracks and delamination are prevented. WSM8 provides long-lasting protection to the substrate surface. Its unique properties allow for substrate movement and accommodation to sudden temperature fluctuation.

WSM8 is a fire resistant coating with a Smoke Density rating of 5, and Flame Spread of 10, falling far under the maximum rating of 25 in each category. The coating will encapsulate and inhibit mold, fungi and mildew growth. WSM8, when used as an interior coating, is ideal for mine shafts, elevator shafts, schools, agricultural buildings, medical facilities, and anywhere else where additional fire protection is required. For large imperfections, use Reinforcing Fabric as stated in the instructions.

Product Recognized and Approved for Use By: U.S. Department of Labor MSHA Mine Safety & Health Administration










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USES

WS M8 becomes an integral component to the construction of any structure as it bonds to a substrate. Ideal for commercial and industrial use, WS M8 Elastomeric Waterproofing Membrane seals and water proofs:

- Foundation walls / ICF / Magnesium oxide panel structures/buildings/underground structures
- Stucco and block walls
- Building materials (Includes magnesium oxide panel, wood, plywood, OSB, stucco, concrete, concrete blocks, various metal and polyurethane foam) and polyurethane foam)
- Electrical power bores/terminals

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
- Non-toxic and environmentally friendly
- Highly alkaline resistant
- Does not sustain microbial and algae growth
- Passed ASTM D4300 (Ability of Adhesive Films to Support or Resist the Growth of Fungi)
- UV, acid rain and mildew resistant
- Passed ISO 16929 (Plastic)
- Determination of the degree of disinte gration of plastic materials under defined composting conditions in a pilot scale
- Protects structure from chemical damage caused by salts and acid rain
- Protects structure from mechanical damage from weather erosions (rain and sleet)
- Exceeded the MSHA standards for ASTM E162 (Surface Flammability of Materials Using a Radiant Heat Energy Source)

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GENERAL DATA

Type	Acrylic Elastomeric
VOC	Less than 23 g/L
Volume Solids	55-65% (varies by color)
Standard Color	Black/White
Coverage	120-200 ft./gallon
Film Thickness (wet)	10-12 mils per gallon
Film Thickness (dry)	6-10 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 (Brookfield, 20°C)
Flash Point	N/A
Sheen	Matte
Surface Temperature at Application	Min. 5°C/42°F Max. 35°C/95°F
Thin With	Do not thin
Storage Temperature	Min. 5°C/41°F Max. 32°C/90°F
Water Vapour Transmission	2.9 perms @ 12 mills DFT 53 perms @ 3 mills DFT (ASTM E96-80BW)
Tensile Strength	130 psi @ WFT 13 mills (ASTM D412)
Elongation	310% (ASTM D412)
Surface Flammability Rating	Radiant Panel Index 10 (ASTM E162)
Smoke Produced	Smoke Developed Index 5 (ASTM E162)

Surface Preparation

Prior to the application of WS M8, ensure that the surface is clean, dry, stable and 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 appropriate latex Caulking 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 WS M8. Place fabric on the center of the substrate 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.

Magnesium Oxide Panel Application

Ensure panel is free of moisture and particulates. Sand/score board with 60 plus grit sanding block or paper. Dust surface. After coast allow 2 hours minimum drying time.

Concrete Application/Cinder Block/Brick and Mortar

Cure substrate for a minimum of 14 days. Using WS M8 diluted with 5% water, prime concrete surface and let dry for a minimum of 2 hours before applying the next coat. Remove debris such as particulates when possible using a wire brush by scrubbing then power wash.scrubbing then power wash.

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Asphalt Application
Apply using the same instructions as stated in Concrete Application.

Metal Application
Using a detergent, power wash the metal surface and rinse thoroughly. Rinse thoroughly and let dry before coating.

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 120-180 grid sand paper for a smoother surface. Rinse with water and let dry. Treat cracks and expansion joints as stated above.

Application Process
WS M8 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 M8 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).

A protection board or insulation may be applied to WS M8 after a full cure (24 hours for underground applications). Backfill can be done immediately after the installation of the protection board or insulation.

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.

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
20°C/68°F	2 hours	1 day

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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

Remove individual from application site 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.

Spills

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

Shelf Life

Unopened, WS M8 has a shelf life of 12 months.

Limitations

- **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 M8 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

WSM8	36 x 5 USG pails on a pallet 5 USG pails 55 USG drum
Caulking	12 cartridges/case
Reinforcing Fabric	12 rolls/case

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Warranty Disclaimer

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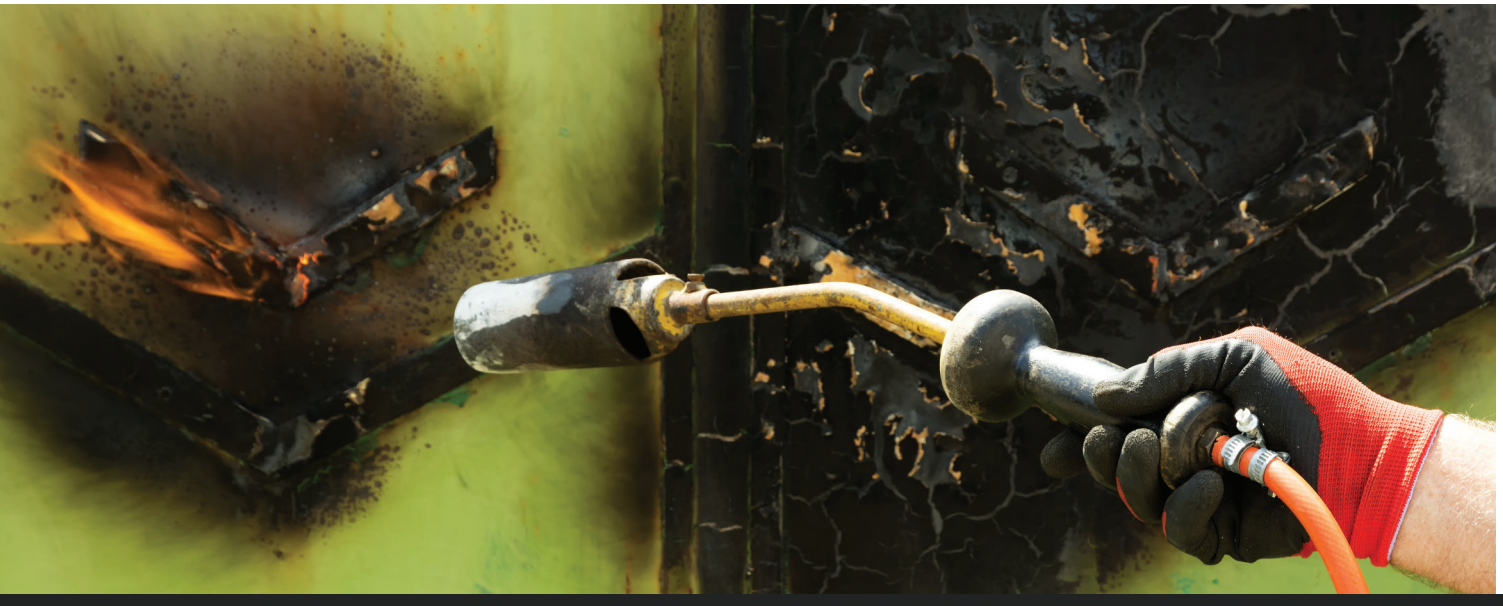

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