DATA SHEET

ECO-SMART MEMBRANE WS M8

Water-based Acrylic WS M8 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 M8 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 M8 creates a fire resistant coating. WS M8 will encapsulate and inhibit mold, fungi and mildew growth. WS M8 is engineered for both above and below grade applications. WSM8, when used as an interior coating, is ideal for mine shafts, agricultural, and medical facilities. WS M8 is an easy-to-use, liquid-applied, waterproof membrane 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. WS M8 will allow trapped moisture to be expelled while remaining waterproof at 12 mills or higher.

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)

Weatherskin Corporation®, 1120 44th Ave SE, Calgary, AB T2G 4W6
Email: team@weatherskin.com

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)

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.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.

Weatherskin Corporation®, 1120 44th Ave SE, Calgary, AB T2G 4W6
Email: team@weatherskin.com

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

Weatherskin Corporation®, 1120 44th Ave SE, Calgary, AB T2G 4W6
Email: team@weatherskin.com

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.

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.

Weatherskin Corporation®, 1120 44th Ave SE, Calgary, AB T2G 4W6
Email: team@weatherskin.com

Packaging

WSM7	36 x 5 USG pails on a pallet 5 USG pails 55 USG drum
Caulking	12 cartridges/case
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.

Weatherskin Corporation®, 1120 44th Ave SE, Calgary, AB T2G 4W6
Email: team@weatherskin.com

WSM8 MINE AND SAFETY

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION

1.1 Product identifier

Trade name	**WSM8 MINING AND SAFETY**
Chemical name	**Water-based elastomeric coating**

1.2 Recommended use of the product and restrictions on use

Recommended use	Industrial Use
Non- recommended use(s)	None known

1.3 Details of the supplier on the safety data sheet

Company	Weatherskin Corporation. Bay B 1120 44th Avenue SE Calgary, Alberta. Canada T2G 4W6
Telephone	403 656 9244
Toll Free	1 877 693 9224
Website	www.weatherskin.com

1.4 Emergency telephone number

Emergency In case of emergency call CANUTEC	613-996-6666

2. HAZARD IDENTIFICATION

2.1 Classification of the mixture

Very thick opaque liquid, paint odor.

2.1.1 Health Hazards	Skin Corrosion / irritation Category 3. • Causes Mild Skin Irritation Serious Eye Damage / Eye Irritation Category 2B. • Causes Eye Irritation
2.1.2 Environmental Hazards	Harmful to aquatic life
2.1.3 Other Hazards Caution	Spillages may be slippery
2.1.4 Hazards summary Irritating to eyes and skin	May cause irritation to the respiratory system. Harmful to aquatic life

2.2 Label Elements

Signal word	Warning
Hazard statement	H316: Causes mild skin irritation H320: Causes eye irritation H402: Harmful to aquatic life
Precautionary Statements	Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protection/face protection.
IF ON SKIN (or hair)	Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF IN EYES	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

3 COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

--

3.2 Mixtures

WSM8 MINING AND SAFETY

HAZARDOUS INGREDIENTS C.A.S.# WEIGHT %

Titanium Dioxide 13463-67-7 5 - 10

C.I. Pigment Black 7 1333-86-4 5 - 10

4 FIRST AID MEASURES

4.1 Description of first aid measures

EYE CONTACT	Rinse cautiously with eyewash solution or clean water, holding the eyelids apart for several minutes. Remove contact lenses if present and easy to do. If eye irritation persists: Get medical attention. Continue rinsing eyes during transport to hospital
SKIN CONTACT	If on skin or hair, take off immediately all contaminated clothing and shoes. Rinse skin, washing thoroughly with water. Get medical attention if irritation persists.
INHALATION	Remove patient from exposure, keep warm and at rest. Get medical attention
INGESTION	Clean mouth with water and drink afterwards a glass of water. Keep respiratory tract clear. Do not induce vomiting. Immediately call a POISON CENTER / Doctor

4.2 Indication of any immediate medical attention or special treatment needed

Note to Physicians Treat Symptomatically

5 FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	Dry chemical, CO2, water spray or regular foam. Compatible with all standard fire fighting techniques.
Unsuitable extinguishing media	None known

5.2 Hazards

Not applicable. Aqueous solution. Non-combustible

5.3 Fire-fighting instructions

None.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures.

Use personal protective equipment. Wear chemical safety glasses, rubber boots and heavy rubber gloves. Prevent further leakage or spillage if safe to do so.

6.2 Environmental precautions

Do not allow to enter drains, waterways, sewers, basements or confined areas.
Do not discharge into the subsoil / soil. Absorb spills with inert material and place in a chemical waste container. If the product contaminates rivers and lakes or drains inform the respective authorities.

6.3 Methods and materials for containment and cleaning up

Provide adequate ventilation. Caution: Spillages may be slippery. Ventilate the area. Soak up with inert absorbent material (e.g. sand, silica gel, universal binder, sawdust) Keep in suitable, closed containers for disposal.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Use only in well ventilated area. Avoid breathing vapor or mist. Avoid all personal contact. Use personal protective equipment. Avoid generation of mist. Emergency shower and eye wash facilities should be readily available. Do not eat, drink or smoke at the work place.

7.2 Hygiene considerations.

Wash hands before breaks and after work. Remove soiled or soaked clothing immediately. Wash contaminated clothes before reuse. Do not eat, drink or smoke when handling this product. Remove contaminated clothing and protective equipment before entering eating areas.

7.3 Safe storage procedures

Keep at a temperature not exceeding 50 °C. Do not allow material to freeze. Keep container tightly closed. Store in cool/well ventilated place.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 EXPOSURE LIMITS

Hazardous Components (Chemical Name) Occupational Exposure Limits
Titanium Dioxide 15 mg/m3. TWA (dust total)*
C.I. Pigment Black 7 3.5 mg/m3. ACGIH TLV TWA.
* Both pigments are dispersed in a liquid phase. They are not present in solid state as dust or loose particles.

8.2 EXPOSURE CONTROLS

ENGINEERING CONTROLS

Use local exhaust ventilation to maintain airborne concentrations at safe levels. Ensure adequate ventilation, especially in confined areas. Suitable respiratory equipment should be used in cases of insufficient ventilation or where demand it.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Equipment : Respiratory protection not normally required. If exposure cannot be controlled below applicable limits, use the the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapor cartridge and dust /mist filter. Consult the respirator manufacturer's literature to ensure that the respirator will provide adequate protection. Read and follow the manufacturer's instructions.

Eye Protection	Use tightly fitting chemical splash goggles. Wear face shield if splashing hazard exists. Contact lenses should not be worn when working with chemicals because they contribute to the severity of an eye injury in case of exposure.
Hand Protection	Use impermeable gloves. Neoprene or butyl-rubber gloves
Body Protection	Use impervious clothing and chemical resistant boots. Consider using resistant coveralls and aprons, if extensive exposure is possible.
Other Protective Equipment	Ensure that eyewash stations and safety showers are close to the workstation location.
General Hygiene Consideration	Do not breathe mist or vapor. Avoid all contact. Do not eat, drink, or smoke when using this product. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Do not take contaminated clothes home.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical State	Thick Liquid.
Color	Black, white, green, blue etc.
Odor	Slight Solvent odor.

Properties

Boiling Point	Not available
Freezing Point	Not available
Flash Point	Not available
PH	8 - 9
Specific Gravity	1.35 – 1.45 g/ cm^3
Viscosity	20.000 CPR
VOC content	Less than 30 g/L
Evaporation rate	Not applicable
Solubility in water	Soluble
Vapour pressure	Not applicable
Vapour density	No data
Auto ignition Point	Not applicable
Decomposition Temperature	Not applicable
Explosive properties	Not applicable
Oxidising Properties	No data

10 STABILITY AND REACTIVITY

Reactivity	No data available.
Chemical Stability	Stable under normal conditions
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	Excessive heat, freezing.
Incompatible Materials	None known.
Hazardous decomposition products	None known.

11 TOXICOLOGICAL INFORMATION

Ingestion	Aspiration hazard. Do not ingest
Inhalation	May cause irritation of nose, throat or respiratory tract. Avoid inhalation.
Skin Contact	May cause skin irritation. Avoid skin contact.
Eye Contact	Material will cause irritation. Avoid eye contact
Skin corrosion/irritation	Irritating to skin
Serious eye damage/irritation	Irritating to eyes.
Sensitization	Not sensitizing
Carcinogens	Possible cancer hazard. Contains materials which may cause cancer based on animal data. Contains TiO2 which is listed by IARC as a possible carcinogen (Group 2B) based on animal data. Neither long Term animal studies, nor human epidemiology studies of workers exposed to TiO2 provide an adequate basis to Conclude TiO2 is carcinogenic. TiO2 is not classified as a carcinogen by NTP, U.S. OSHA or the U.S. EPA IARC has also classified Carbon Black as a possibly carcinogenic to humans (Group 2B). ACGIH-A4 Not classifiable as a Human Carcinogen.

Teratogenicity	No evidence of teratogen effects.
Reproductive toxicity	No evidence of reproductive effects.
Aspiration Hazard	No aspiration hazard expected.

12 ECOLOGICAL INFORMATION

12.1 Toxicity :Harmful to aquatic life. Carbon Black

96 hr LC50 freshwater fish> 1000 mg/L; 24 hr EC freshwater invertebrates> 5600 mg/L

12.2 Persistence and Degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in Soil

No information available.

13 DISPOSAL CONSIDERATIONS

Waste Disposal Method

Dispose of this material and its container to hazardous or special waste collection point. Do not discharge substance/product into sewage system. Do not contaminate pond, waterways or ditches with chemical or used container. The product should not be allowed to enter drains, water courses or the soil.

14 TRANSPORTATION INFORMATION

14.1 Identification, UN number

Water based Paint. Not Regulated

14.2 Shipping Name

14.3 Packing Group

15 OTHER INFORMATION

Waste Disposal Method

Preparation Date	April 19, 2018
SDS prepared by	Weatherskin Corp. 403 656 9244

The information is furnished without warranty, representation, inducement, license of any kind, except that it is accurate to the best of Weatherskin Corporation's knowledge or obtained from sources believed by to be accurate Weatherskin Corporation does not assume any legal responsibility for use or reliance on same. Customers are encouraged to do their own tests.