1. PRODUCT NAME

Ultra-Shield WB Waterproofing

2. MANUFACTURER

GMX, Inc.
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3. PRODUCT DESCRIPTION

Ultra-Shield WB Waterproofing is a polymer modified asphalt emulsion membrane. It is designed and recommended for use as the membrane component in an exterior wall waterproofing system. Ultra-Shield WB forms a tough, durable membrane which bridges shrinkage cracks and maintains its superior performance properties when exposed to the chemicals found in soil. Ultra-Shield WB meets the ICC ESR acceptance criteria for cold, liquid applied below grade exterior waterproofing materials.

The addition of rubber polymer to the base emulsion enables the membrane to:

• Elongate up to 2000%
• Bridge shrinkage cracks (up to 1/16")
• Control water migration between the coating and application surface (localize leaks)
• Impede water at high heads due to improved water vapor permeance
• Comply with EPA Model Standard for radon control in new home construction
• Self-heal

Ultra-Shield WB is manufactured to the highest quality control standards and in accordance with ISO 9001 requirements. ISO certification ensures that each gallon produced meets the highest quality control standards in the industry.

Ultra-Shield WB is compatible with a wide range of insulation, drainage and protection products. Your applicator can design the waterproofing solutions best suited to each project’s specific application requirements and budgetary constraints.

Storage and Handling Considerations: Store materials in a dry area and protect from direct sunlight. Ideally, the materials should be stored inside in a temperature controlled environment (interior temperatures between 60–80°F). Do not allow Ultra-Shield WB to freeze. Any materials exposed to the elements should be elevated above the ground and covered by a tarpaulin. Materials should not be exposed to excessive heat or direct flame.

Ultra-Shield WB should not be applied during inclement weather and the installation should not proceed in the event that precipitation is probable during the application. Consult your local GMX representative or the GMX Technical Department for application recommendations when application temperatures are less than 20°F. Store waterproofing materials at room temperature until immediately prior to use when the ambient temperature is less than 40°F. Discontinue application if the material cannot be stored at temperatures which permit even distribution of product. Avoid inhaling the spray mist and take precautions to ensure adequate ventilation. Consult the product MSDS Sheet prior to spraying.

4. INSTALLATION

Preparatory Work: The walls and footings must be dry and of sufficient strength and design to ensure structural integrity. Concrete wall and mortar joints must cure a minimum 16 hours before Ultra-Shield WB is applied. Foundation design using concrete blocks should fall within guidelines established by the National Concrete Masonry Association and be acceptable to the local building code enforcement agency.

Remove dirt and debris from the walls and footings with a stiff brush or broom. Scrape any loose mortar and debris from the walls and footings with a metal scraper. Do not apply Ultra-Shield WB over standing water. Repair any cracks in excess of 1/16” along the footings or in the wall surface and all honeycombed areas with a non shrinking grout. Fill all voids around tie holes, recessed ties and other small voids with an acceptable fiber reinforced asphalt roofing cement or cementitious repair material.

Membrane Installation: After the wall and footing surfaces have been properly prepared, spray, roller or brush apply Ultra-Shield WB over the entire wall surface (to the designated grade line) and along the perimeter. Particular emphasis should be paid to wall joints and the joint between the walls and footings. Ultra-Shield WB is applied at a rate of 20–25 sq. ft. per gallon in residential applications and to the specified rate in commercial applications. A two pass application is generally recommended to ensure sufficient dry mil thickness without excessive running or puddling. To ensure a smooth, consistent spray pattern, warm the material to 100–130°F immediately prior to spraying.

Protection, drainage or insulation board is typically installed over Ultra-Shield WB to protect the membrane from damage by the backfill, to assist in draining water away from the foundation and/or to insulate the foundation wall. The insulation/protection course is not required by code in residential applications. It is recommended for commercial waterproofing applications. Ultra-Shield WB is compatible with a wide range of insulation and protection boards including, but not limited to rigid fiberglass insulation/
COLORS: Black
Solids: 62% +/- 5 (by weight)
Density: 8.4 lbs./gal. (1.0 g/cu. cm)
Application: Airless spray, brush, roller
Cure Time: 2 – 24 hours

Hydrostatic Pressure: Meets AC 29 requirement over Cracks (ASTM C 1306) for pressure resistance.

Low-Temperature Flexibility: Meets AC 29 requirement, No cracking or loss of adhesive bond and Crack Bridging adhesion.

Adhesion Strength to Poured Cement: 2.469 lbf/in., ASTM C 836, Meets AC 29 requirement, Section 6.10

Adhesion Strength to Unparged Masonry: 1.855 lbf/in., ASTM C 836, Section 6.10

Resistance to Water: No blistering or re-emulsification.

Remains in Place During Application: Meets AC 29 requirement.

Water Vapor Permeance: .29 perms, ASTM E 96, Water Method

Extensibility after Heat Aging: ¼ No Cracking

Elongation: 1936% min.

Cure Time: 12 – 24 hours.

## TECHNICAL DATA

### PRODUCT SPECIFICATIONS

Type: Polymer modified asphalt waterproofing membrane

### PRODUCT INFORMATION

**Major Products:**
- **ULTRA-SHIELD® WB**
- **Microshield 135**

**Primary Markets:**
- **Construction**
- **Commercial**
- **Specialty**

**Application:**
- **Membrane Waterproofing**
- **Coatings**

**Ultra-Shield® WB** is used in construction, commercial, and specialty applications to provide a high-performance, long-lasting waterproofing solution. It is ideal for projects requiring a durable, reliable, and energy-efficient barrier against water penetration.

### INSTALLATION

1. **Backfill** must be graded to direct surface water away from the exterior foundation walls.

2. **Additional Procedures for Poured Concrete Walls:**
   - Ultra Shield WB can be applied immediately after the forms have been removed.
   - Remove wall ties prior to application.
   - Fill any large voids and tie holes with a non-shrinking grout or asphalt based cement. Do not apply GMX WB to frozen concrete.

3. **Additional Procedures for Concrete Block Walls:**
   - Mortar joints must be made flush to provide a void free bonding surface. Ultra Shield WB will adhere to both parged and unparged concrete block walls. Due to the porous nature of unparged concrete block walls, additional material may be required to achieve the specified dry mill thickness. The mortar must be Type M or Type S as specified by ASTM C-270-91a. (Specification for Mortar for Unit Masonry, ASTM Vol. 04.01 and 04.05).
   - Allow the mortar joints to cure a minimum 16 hours prior to applying waterproofing.

4. **Spray Equipment Recommendations:**
   - Gasoline powered, airless spray units with a minimum 4,000 p.s.i. rating will effectively spray any Ultra-Shield waterproofing product.
   - For efficient spraying, use a heat exchanger to warm the product to 100–130°F immediately prior to spraying. A reverse-a-clean spray tip with an orifice between 0.029 and 0.035 is recommended for spraying Ultra-Shield WB.
   - Most spray systems utilize 150° of hose. Use ½ inch, 5,400 p.s.i. rated hose for the first 100 feet. Use 3/8 inch, 4,700 p.s.i. rated hose for the next 50 feet. A 4 foot, ¼ inch whip line is used immediately before the spray gun to facilitate spraying. Do not mix water and solvent based materials in the hose lines. Clean lines with mineral spirits before switching materials. Clean spray equipment with mineral spirits.

5. **AVAILABILITY AND COST**

GMX materials are produced in and shipped from our plant in Cleveland, OH. For the name and number of the nearest GMX representative, call us at 866-228-7743. Our representatives can provide pricing and put you in contact with our nearest stocking distributor.

6. **WARRANTY**

GMX warrants its material for 10 years and its system applications for a period of up to 30 years provided our materials are applied in accordance with the published specifications in effect at the time of installation. For specific warranty terms and conditions, contact your local GMX representative or the Cleveland office.

7. **TECHNICAL SERVICES**

Your local GMX representative is available to assist you in selecting the appropriate product and to provide onsite application assistance. For further information, please contact our Technical Service Dept. at 866-228-7743.

### LEED® CREDITS

**EQ Credit 3.1:** Construction IAQ Management Plan: During Construction

**EQ Credit 4.2:** Low Emitting Materials: Paints and Coatings

**MR Credit 5.1:** Regional Materials: 10% Extracted, Processed and Manufactured Regionally

**MR Credit 5.2:** Regional Materials: 20% Extracted, Processed and Manufactured Regionally

**ULTRA-SHIELD® WB** is a versatile, high-performance membrane waterproofing solution designed to provide superior performance in a wide range of applications. It is ideal for construction projects requiring a durable, reliable, and energy-efficient barrier against water penetration.