

TECHNICAL DATA SHEET



MOXIE SHIELD 1400 ***MASONRY BLOCK SEALER***

A READY TO USE, NON-TOXIC, PENETRATING WATER REPELLENT FORMULATED FOR ALL TYPES OF LARGE PORE MASONRY BLOCK. PREVENTS WATER AND MOISTURE PENETRATION ON VERTICAL, ABOVE-GRADE, BLOCK AND MASONRY SURFACES AND IS SUITABLE FOR INTERIOR AND EXTERIOR DECORATIVE APPLICATIONS, PROVIDING LONG-TERM PROTECTION.

AT A GLANCE

MOXIE SHIELD 1400 Masonry Block Sealer is a water-based, non-toxic, non-flammable sealer, which undergoes a chemical reaction producing a hard silicone resin that dries in 24 hours to form a water repellent barrier, penetrating from $\frac{3}{4}$ inch for concrete block, to $\frac{1}{4}$ inch for dense, fine pored masonry products or concrete. MOXIE SHIELD 1400 Masonry Block Sealer produces benefits of a water repellent barrier, alkali and efflorescence inhibitor, and dust-proofing compound, all in an environmentally safe surface sealer. Field and laboratory testing shows superior performance over silane/siloxane sealers without alcohol or petroleum solvents. Produces a breathable, water repellent surface suitable for wind-driven rain up to 30 miles per hour.

RECOMMENDED USES

For use on above grade:

- Concrete Masonry Units
- Gunite
- Shotcrete
- Mortar
- Grout
- Ornamental Surfaces

ADVANTAGES

- Ease of application
- Water repellent
- Prevents mildew & fungus growth
- Prevents lichen, moss and other surface accretions
- Prolonged surface life
- Resists rust, clay and waterborne contaminant stains
- Reduces internal chlorides
- Maintains original color & cleanliness
- Reduces efflorescence and alkali attack
- Reduces deterioration and penetration of contaminants
- Improves weathering resistance
- Increased freeze-thaw durability, reducing flaking, scaling and spalling

PROVEN PERFORMANCE

MOXIE SHIELD 1400 liquid penetrating surface sealer has been used on building and construction materials for over 50 years to prevent moisture intrusion, while preserving surface integrity of the substrate.

SUSTAINABILITY

- **Building for future generations:** The MOXIE SHIELD technology strengthens the inner structure of concrete and leads to longer lasting quality structures.
- **LEED Certification:** MOXIE SHIELD 1400 Masonry Block Sealer increases available LEED credits for projects.
- **Zero VOC (EPA 24 VOC):** The Moxie technology is based on inorganic compounds.
- **Non-Toxic/Non-Hazardous:** The liquid MOXIE SHIELD 1400 Masonry Block Sealer is not toxic or hazardous; therefore, when protecting concrete from moisture intrusion MOXIE SHIELD 1400 Masonry Block Sealer will not release toxic or hazardous emissions.
- **Water-Based:** The technology is a water-based carrier for inorganic ingredients.

STANDARDS COMPLIANCE

ASTM C666, ASTM D3960;

EPA USDA VOC=0

COVERAGE RATE

- For two coat coverage estimate 50-100 ft² per gallon, depending on substrate porosity.

SURFACE PREPARATION

All construction faults and cracks should be repaired properly. Surfaces should be thoroughly cleaned, power washed and allowed to dry. DO NOT USE DETERGENTS. Allow a minimum of 48-72 hours for surfaces to dry before application of sealer. Do not apply in damp, moist weather. Apply to clean, dry surfaces only.

APPLICATION PROCEDURES

1. Stir or agitate MOXIE SHIELD 1400 Masonry Block Sealer to ensure it is mixed thoroughly.
2. Saturate surface thoroughly with MOXIE SHIELD 1400. Use an airless or low pressure (MESTO type) sprayer to apply. A brush or roller may also be used. To assure adequate absorption and coverage, spray area to allow a rundown of 12 inches during application. DO NOT USE COMPRESSED AIR FOR APPLICATION, product will foam.
3. Apply second coat while first coat is still damp. DO NOT ALLOW FIRST APPLICATION TO DRY BEFORE THE SECOND COAT IS APPLIED as the surface will likely "white over" similar to a whitewashed surface.
4. If applying to a large area, apply product in 50ft² segments.
5. Allow 24 hours curing for maximum performance.

PACKAGING

MOXIE SHIELD 1400 is available in 1 gal (3.8 L) and 5 gal (18.9 L) pails, 55 gal (208 L) drums and 275 gal (1041 L) totes.

STORAGE

Do not allow to freeze.

ADDITIONAL INFORMATION

MOXIE SHIELD 1400 Masonry Block Sealer should not be applied on moist or wet surfaces. Do not apply in the rain. Do not apply in direct sunlight. Do not apply in windy conditions. Do not apply if ambient temperatures are below 50°F / 10°C.

HANDLING AND STORAGE

- Handling: Avoid contact with eyes, skin and clothing. Avoid breathing spray mist. Remove with running water or a damp cloth immediately. Masks and gloves are recommended.
- Due to pH level, DO NOT allow this product to come in contact with plant life or leather.
- DO NOT allow product to come in contact with glass, porcelain or ceramic tile, aluminum, zinc or galvanized steel. Product will permanently etch or erode the surface. Must be rinsed with running water or removed with damp cloth immediately.
- Storage: Keep the container closed. Store in clean steel or plastic containers.
- Keep separate from acids, reactive metals, and ammonium salts. Store above 40°F / 4.5°C.
- Indefinite shelf life. DO NOT ALLOW PRODUCT TO FREEZE.

MANUFACTURER'S GUARANTEE

MOXIE SHIELD 1400 Masonry Block Sealer is guaranteed to perform and be manufactured per the specifications contained in the Moxie Engineering documentation.

RELATED DOCUMENTS

Safety Data Sheet

Application Procedures