

TECHNICAL DATA SHEET



MOXIE SHIELD 1300 **BRICK SEALER**

MOXIE SHIELD 1300 IS A WATER REPELLENT, SURFACE SEALER FORMULATED FOR ALL TYPES OF NATURAL BRICK SURFACES. PREVENTS WATER AND MOISTURE PENETRATION ON VERTICAL, ABOVE-GRADE AND NATURAL BRICK SURFACES PROVIDING LONG-TERM PROTECTION. SUITABLE FOR INTERIOR, EXTERIOR, DECORATIVE, AND HISTORICAL APPLICATIONS.

AT A GLANCE

MOXIE SHIELD 1300 Brick Sealer is a water based, non-toxic, non-flammable sealer. When applied to brick or ornamental surfaces, it undergoes a chemical reaction, which changes MOXIE SHIELD 1300 Brick Sealer from a liquid to a hard silicone resin that dries in 24 hours to form a water repellent barrier. Treatment forms a water repellent zone up to 3/4 of an inch deep for porous brick and mortar, ranging down to 1/4 inch for dense, fine pored brick masonry products. Test data shows superior results over silane/siloxane sealers without alcohol or petroleum solvents. MOXIE SHIELD 1300 Brick Sealer produces a breathable, water repellent surface suitable for wind-driven rain.

RECOMMENDED USES

For use on above grade:

- Natural Brick
- Manufactured Brick
- Ornamental Brickwork
- Fire and Police Stations
- Churches & Religious Buildings
- Historical Preservation Projects
- Hospitality, Hotels, Restaurants
- Education, K-12, Universities
- High-End Residential Homes
- Hardscape, Brick Walls & Paving
- Municipal, Libraries, City Halls
- Retail Shopping Centers

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 1300 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 1300 Brick 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 1300 Brick Sealer is not toxic or hazardous; therefore, when protecting brick and mortar from moisture intrusion MOXIE SHIELD 1300 Brick Sealer will not release toxic or hazardous emissions.
- **Water-Based:** The technology is a water-based carrier for inorganic ingredients.

COVERAGE RATE

- For two coat coverage, estimate 50-100 ft² per gallon, depending on substrate porosity.
- Hard fired, new brick, 75-100 ft² per gallon.
- Porous, old, weathered brick, 50-75 ft² per gallon.

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. New brick mortar should age at least 30 days before application. Pressure wash new mortar residue from brick surface. MOXIE SHIELD 1300 will react with any mortar residue and produce a white surface.

APPLICATION PROCEDURES

1. Stir or agitate MOXIE SHIELD 1300 Brick Sealer to ensure it is mixed thoroughly.
2. Saturate surface thoroughly with MOXIE SHIELD 1300 Brick Sealer. 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.

HANDELING 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.**

ADDITIONAL INFORMATION

MOXIE SHIELD 1300 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.

MANUFACTURER'S GUARANTEE

MOXIE SHIELD 1300 Brick Sealer is guaranteed to perform and be manufactured per the specifications contained in the Moxie Engineering documentation.

RELATED DOCUMENTS

Safety Data Sheet
Application Procedures

STANDARDS COMPLIANCE

ASTM C666, ASTM D3960;
EPA USDA VOC=0

PACKAGING

MOXIE SHIELD 1300 Brick Sealer 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.