

TECHNICAL DATA SHEET



MOXIE SHIELD 1100 ***ROCK & STONE SEALER***

MOXIE SHIELD 1100 IS A WATER REPELLENT, SURFACE SEALER FORMULATED FOR ALL TYPES OF ROCK AND STONE SURFACES. PREVENTS WATER AND MOISTURE PENETRATION ON VERTICAL, ABOVE-GRADE ROCK AND STONE SURFACES PROVIDING LONG-TERM PROTECTION. SUITABLE FOR INTERIOR, EXTERIOR, DECORATIVE, AND HISTORICAL APPLICATIONS.

AT A GLANCE

Moxie Shield 1100 is a water based, non-toxic, non-flammable sealer. When applied to rock and stone surfaces, it undergoes a chemical reaction, which changes MOXIE 1100 ROCK & STONE SEALER from a liquid to a hard silicon 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 surface. Test data shows superior results over silane/siloxane sealers without alcohol or petroleum solvents. Moxie 1100 produces a breathable, water repellent surface suitable for wind-driven rain.

RECOMMENDED USES

For use on above and below grade:

- Natural Stone
- Manufactured Rock & Stone
- Ornamental stone
- Fire and Police Stations
- Churches & Religious Buildings
- Historical Preservation Projects
- Hospitality, Hotels, Restaurants
- Education, K-12, Universities
- High-End Residential Homes
- Hardscape
- 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
- 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 1100 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

- **LEED Certification:** Moxie Shield 1100 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 1100 is not toxic or hazardous; therefore, when protecting rock and stone from moisture intrusion Moxie Shield 1100 will not release toxic or hazardous emissions.
- **Water-Based:** The technology is a water-based carrier for inorganic ingredients.

COVERAGE RATE

- For two coats coverage, estimate 50-100 ft² per gallon, depending on substrate porosity.
- Hard surfaces, 75-100 ft² per gallon.
- Porous, surfaces, 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 mortar should age at least 30 days before application. Pressure wash new mortar residue from rock and stone surface. MOXIE SHIELD 1100 will react with any mortar residue and produce a white surface.

APPLICATION PROCEDURES

1. Stir or agitate MOXIE SHIELD 1100 to ensure it is mixed thoroughly.
2. Saturate surface thoroughly with MOXIE SHIELD 1100. 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.

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, aluminium, zinc or galvanised 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 1100 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 1100 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 1100 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.