



## Concrete Waterproofing Sealer

### **MOXIE SHIELD 1500**

is a ready to use, multipurpose and permanent penetrating liquid sealer/hardener, specifically formulated to penetrate up to six inches and seal concrete for the prevention of water vapor migration and alkali efflorescence, protecting and preserving concrete and masonry against moisture causing problems.

#### AT A GLANCE

**Moxie Shield 1500 Concrete Sealer** is suitable for new and existing concrete and all other forms of cementitious construction and products. The superior sealer protects and preserves all above and below grade, vertical and horizontal concrete surfaces. Moxie 1500 Concrete Sealer undergoes a chemical reaction with the by-products of cement hydration to form the highest density of cementitious materials. It dramatically enhances the natural characteristics of concrete and reduces the capillary voids to near zero.

#### RECOMMENDED USES

For use on above and below grade:

- Arenas
- Basements
- Bridges
- Concrete Pipes
- Foundations
- High subgrade moisture conditions
- Levees & Dams
- Moisture/Acid exposed surfaces
- Parking Structures
- Retaining Walls
- Secondary Containment Structures
- Sewage and Water Treatment Plants
- SRW
- Swimming Pools
- Tunnels and Subway Systems
- Underground Vaults
- Veneer Stone

#### ADVANTAGES

- Stops moisture and vapor migration
- Resists reinforcing steel corrosion and deterioration
- Improves weathering resistance
- Negative and/or positive side application
- Dust-proofs the surface
- Resists hydrostatic pressure up to 100 psi
- Resists chloride intrusion
- Dramatically increases surface hardness
- Prevents efflorescence
- Increases freeze-thaw durability (exceeds 600 cycles)
- Prevents mildew and fungi
- Resists acid attack
- Adds density and bond strength
- Penetration of up to 6 inches
- Cures concrete uniformly
- Preserves and prepares masonry for paints, coatings and adhesives

## Proven Performance

Moxie Shield 1500 Concrete Sealer has been performing in laboratory and job-site settings for over 40 years and has demonstrated effectiveness in curing, surface hardening/strengthening, freeze-thaw durability and water vapor transmission.

## 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 1500 Concrete Sealer increases available LEED credits for projects.
- Zero VOC (EPA 24 VOC) – The Moxie Shield 1500 Concrete Sealer technology is based on inorganic compounds.
- Non-Toxic/Non-Hazardous – Moxie Shield 1500 Concrete Sealer is not toxic or hazardous; therefore, when protecting concrete from moisture intrusion it will not release toxic or hazardous emissions.
- Water-Based – The technology is a water-based carrier for inorganic ingredients.

## Standards Compliance

ASTM E96, E1745, F710, F2170–Sec 7.9, C156, C666, C805, D4263, D5084, C309 Performance criteria, CARB, EPA USDA VOC=0

USDA approved for use in food processing areas. Complies with OSHA 29 CFR–1910.1200.

## Coverage Rate

- For two coat horizontal coverage estimate 150-200 ft<sup>2</sup> per gallon. For two coat vertical coverage estimate 100-125 ft<sup>2</sup> per gallon.
- If using as a curing compound, apply one coat at the rate of one gallon per 250-300 ft<sup>2</sup> after the final finish. For a moisture vapor barrier, alkali efflorescence, or pH oriented application apply a second application on day two.

## Application for New Concrete Installation

Moxie Shield 1500 Concrete Sealer can be sprayed onto the surface of the fresh concrete as soon as the concrete surface is "set" enough to walk on without marring the finish.

1. Apply the first coat of Moxie Shield 1500 penetrating sealer using a low-pressure sprayer.
2. Apply the second coat as soon as first coat has absorbed. Typically, no more than 10 minutes.
3. No additional preparation is needed before or after the two-coat application.

## Existing Concrete Substrate Preparation

Substrate preparation is the most important factor when applying Moxie Shield 1500 Concrete Sealer. Moxie Shield 1500 Concrete Sealer is a chemically reactive, penetrating sealer that MUST penetrate in order to be effective. [NOTE: To verify absorption, refer to Moxie Shield 1500 Concrete Sealer Application Procedures to perform the Water Absorption Test.] On existing slabs, remove any flooring materials, coatings, finishes, waxes, grease, surface sealers, paints, flooring adhesives, or any other materials that could impede the absorption and penetration of Moxie Shield 1500 Concrete Sealer. If the concrete is nonabsorptive, it must be properly and aggressively abraded to expose a surface that will allow static absorption of our water-based product. Bead blast, scarify, or grind with a diamond blade to expose an absorptive surface. Acid etching is not recommended.

## Packaging

Moxie Shield 1500 Concrete Sealer is available in 5 gal (18.9 L) pails, 55 gal (208 L) drums and 275 gal (1041 L) totes.

## Storage

Store above 40°F in a tightly closed container. If frozen, thoroughly agitate before use. Do not use compressed air, product may foam. Indefinite shelf life.

### **Additional Information**

For exterior applications, do not apply in rain, wind, or extreme conditions. Do not apply if the ambient/surface temperature is below 50°F or above 85°F on existing concrete. In controlled environments, the ideal ambient/surface temperature is 68°F-78°F. Do not apply to fresh concrete (less than 28 days) if a calcium chloride accelerator was used. Do not apply in windy conditions. Avoid contact with eyes. Due to the high 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. Remove with running water or a damp cloth immediately.

Product will leave a hard white residue, or permanently etch/erode glass and smooth surfaces.

### **Manufacturer's Guarantee**

Moxie Shield 1500 Concrete Sealer is guaranteed to perform and be manufactured per the specifications contained in the Moxie Engineering documentation.

### **Related Documents**

CSI Specification Sheet  
Application Procedures  
Technical Bulletins  
SDS

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