

## TECHNICAL DATA SHEET



# ***MOXIE SHIELD 1600*** ***PENETRATING CONCRETE CLEANING SEALER***

A MULTI-PURPOSE, READY TO USE, LIQUID SEALER/HARDENER, THAT PENETRATES, CLEANS AND PERMANENTLY SEALS CONCRETE FROM MOISTURE MIGRATION AND ALKALI EFFLORESCENCE. IT IS SPECIFICALLY FORMULATED TO REMOVE PETROLEUM BASED PRODUCTS AND CONTAMINANTS FROM WITHIN THE CONCRETE AND REDUCE CAPILLARY VOIDS TO PRACTICALLY ZERO.

### AT A GLANCE

Moxie Shield 1600 Penetrating Concrete Cleaning 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 1600 Penetrating Concrete Cleaning Sealer is a water based and non-toxic inorganic compound that 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
- Auto Repair Shops
- Bridges
- Foundations
- High subgrade moisture conditions
- Moisture/Acid exposed surfaces
- Parking Structures
- Retaining Walls
- Swimming Pools
- Tunnels and Subway Systems
- Underground Vaults

### ADVANTAGES

- Stops moisture and vapor migration
- Expels petroleum/hydrocarbon contaminants
- 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 1600 Penetrating Concrete Cleaning Sealer has been performing in laboratory and on jobsite settings for over 50 years and has demonstrated effectiveness in concrete sealing, 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 1600 Penetrating Concrete Cleaning Sealer increases available LEED credits for projects.
- **Zero VOC (EPA 24 VOC):** The Moxie Shield 1600 Penetrating Concrete Cleaning Sealer technology is based on inorganic compounds.
- **Non-Toxic/Non-Hazardous:** Moxie Shield 1600 Penetrating Concrete Cleaning 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

- Two-coat coverage: Approximately 150 sq. ft. per gallon. The first coat typically uses twice as much product as the second. Below-grade or highly porous surfaces may require three or more coats to achieve full performance.

## PACKAGING

Moxie Shield 1600 Penetrating Concrete Cleaning Sealer is available in 1 gal (3.8 L), 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. 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 90°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 1600 Penetrating Concrete Cleaning Sealer is guaranteed to perform and be manufactured per the specifications contained in the Moxie Engineering documentation.

## RELATED DOCUMENTS

Application Procedures

SDS