

## APPLICATION PROCEDURES



# **MOXIE SHIELD 1600**

## **PENETRATING CONCRETE CLEANING SEALER**

### **NEED MORE HELP?**

Please contact our technical support experts at [tech@moxieinternational.com](mailto:tech@moxieinternational.com) or call (844) 845-1975.

### **CONCRETE SUBSTRATE PREPARATION**

Substrate preparation is critical for effective performance of Moxie Shield 1600 Penetrating Concrete Cleaning Sealer. This product is a chemically reactive, penetrating sealer and cleaner that must fully absorb into the concrete to remove contaminants and seal the concrete from moisture permeability. Surface cleaning: Remove all free or loose dirt, grease, oil, paint, waxes, coatings, sealers, adhesives, and any contaminants that could block absorption. Surfaces with petroleum or hydrocarbon buildup must be thoroughly cleaned or vacuumed prior to application. If acid washing is performed, acid must be completely removed and neutralized before applying Moxie Shield 1600 Penetrating Concrete Cleaning Sealer. Surface profile: Concrete must be porous and absorptive. For steel-troweled or dense surfaces older than 28 days, mechanically abrade (grind, bead blast, or scarify) to open the surface and allow penetration. Do not acid-etch. Perform the Water Absorption Test to confirm readiness.

### **WATER ABSORPTION TEST**

A properly prepared surface will allow one teaspoon of water to absorb into the concrete within 10–15 minutes. If the water beads or

remains unabsorbed, further mechanical abrasion is required. It is the contractor's responsibility to ensure the concrete is absorptive prior to application.

### **CRACKS / JOINTS**

Cracks, saw cuts, and expansion joints should be sealed prior to application. Follow ACI guidelines for crack repair and seal.

### **APPLICATION PROCEDURES**

1. DO NOT APPLY IF THE AMBIENT TEMPERATURE IS BELOW 50°F OR ABOVE 90°F. Ideal range: 68–78°F. Do not apply in rain or high wind.
2. Pre-dampen the surface. Mist lightly with clean water before application.
3. Apply the first coat of Moxie Shield 1600 Penetrating Concrete Cleaning Sealer using a low-pressure sprayer (Hudson, backpack, or garden type). Saturate evenly and avoid puddling.
4. Apply the second coat when the surface is nearly dry. A third coat may be required on porous or below-grade surfaces.

## **BATCH PLANT & PLACEMENT PROCEDURES (continued)**

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5. Once the last coat is nearly dry, lightly mist again with clean water. Remove efflorescence or petroleum residues using a shop vacuum or clean cloths.
6. After 12–24 hours, flood the surface with clean water to allow deeper penetration. Broom out puddles and remove any efflorescence that may form. Repeat light flooding twice daily until no efflorescence or oil appears.
7. Very damp or cold conditions may extend drying time; higher temperatures shorten drying time.

### **COVERAGE**

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.

### **LIMITATIONS**

Do not apply to asphalt, metal, or wood surfaces. Will not penetrate acrylic coatings, paints, or non-porous surfaces. Flowing water must be stopped prior to application. Avoid applying in high winds or direct sunlight. Product is alkaline—avoid contact with plant life, leather, glass, porcelain, ceramic tile, aluminum, zinc, or galvanized steel. If contact occurs, rinse immediately with water or wipe with a damp cloth.

### **SAFETY PRECAUTIONS**

Use Level “C” protection as defined by OSHA, including gloves, goggles, and appropriate respiratory protection if spraying in enclosed areas. Do not apply to new concrete (less than 28 days old) that contained a chloride accelerator. Avoid prolonged skin contact. Alkali salts (efflorescence) must be rinsed off within 24–48 hours or they may permanently harden on the surface.

### **POST-APPLICATION TESTING**

After treatment and drying, follow these ASTM test methods to verify surface condition and readiness for coatings or flooring materials:

ASTM D4263 (MOD) — Plastic Sheet Test

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