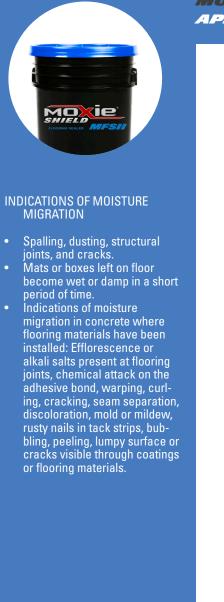


Vapourproofing Concrete. Strengthening Foundations.



MOXIE SHIELD MFSII FLOORING SEALER APPLICATION PROCEDURES

To be performed by certified applicators or contractors only.

CONCRETE SUBSTRATE PREPARATION

Substrate preparation is the most important factor when applying Moxie Shield MFSII Flooring 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. [NOTE: Perform the Water Absorption Test* to verify absorption.] On existing slabs, remove any flooring materials, finishes, waxes, grease, surface sealers, paints, flooring adhesives, or any other materials that could impede the absorption and penetration of Moxie Shield MFSII Flooring Sealer. If the concrete is nonabsorptive, bead blast, scarify, or grind with a diamond blade to expose an absorptive surface equal to a CSP 3 or 4, equivalent to 60 grit sandpaper. Acid etching is neither acceptable nor effective.

CRACKS/CUTS & JOINTS

Cracks, structural cracks, saw cuts, and expansion joints must be sealed. Refer to the Moxie Shield 2000 Concrete Patch Technical Specifications sheet. Cracks less than 1/8" in width must be 'V' grooved, or a "crack chaser" must be used to provide an adequate bond.

APPLICATION PROCEDURES

- 1. Do not apply in ambient temperatures below 65°F.
- 2. Perform the Water Absorption Test.
- 3. Mist surface to dampen the substrate.
- 4. Apply the first coat of Moxie Shield MFSII Flooring Sealer using a low pressure sprayer or by pouring and brooming evenly over the concrete substrate.
- 5. Do not leave any puddling in low areas of the concrete. Product must absorb evenly and be dry to the touch within 30 to 45 minutes of application. Moxie Shield MFSII Flooring Sealer will dry on the surface and become difficult to remove if allowed to cure in low areas. Spread product evenly, using a stiff bristle broom to ensure even absorption, and begin brooming low areas before moving to high areas.
- 6. Apply second application when the surface appears to be 90% dry (two or more applications may be necessary, depending on the porosity). Regulate the absorption of product on areas where it is absorbing slowly while touching up areas where absorption is occurring rapidly until the surface appears to be drying evenly. [NOTE: When absorption takes 45 minutes or longer, no further applications are necessary.]
- 7. After the final application has absorbed and appears dry, mist surface with clean water. Proper and complete absorption will result in the appearance of an even, dry look.
- 8. Thoroughly saturate surface with clean, clear water (equivalent to 3 mist coats) 8 to 24 hours later. Broom out any puddling. Allow product to cure 48 to 72 hours (or more) depending on the initial moisture-vapor emission rate. This time is necessary for Moxie Shield MFSII Flooring Sealer to expel any additional water not required for the chemical reaction to occur. Refer to the testing procedures listed below and proceed with ASTM D4263 Plastic Sheet Test and ASTM E1907 Relative Humidity Test.

MOXIE SHIELD MFSII FLOORING SEALER APPLICATION PROCEDURES

*WATER ABSORPTION TEST:

Surface is properly abraded when two to three tablespoons of water poured onto the concrete spreads out and absorbs within 15 to 20 minutes. If the water beads up on the surface and shows no absorptive qualities, expose an absorptive surface. It is the Contractor's responsibility to provide an absorptive surface to allow proper penetration of Moxie Shield MFSII Flooring Sealer.



Please contact our technical experts at tech@moxieshield.com or call 888-550-7998.

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.

ASTM F710 MOISTURE TESTING PROCEDURE

For the recommended procedure to verify the readiness of Moxie Shield MFSII impermeable concrete to receive resilient flooring, refer to ASTM F710 Mat Test section for "Bond" testing.

MOXIE WARRANTY ASTM E1907 TESTING PROCEDURE

For over 40 years Moxie International has followed a tried and true method of surface moisture emission described in ASTM E1907 to determine moisture emission by measuring relative humidity of atmosphere confined adjacent to concrete floor. If flooring materials, epoxies, or coatings of ANY type are to be installed, only this test is to be performed. Always comply with adhesive manufacturer's requirements for proper trowel notch depth, width, spacing and pH levels. Contact the Moxie Technical Department for further details.

ASTM F1869

The Calcium Chloride Test is not acceptable, as it removes approximately 50% of the moisture from the top inch of the concrete, thereby creating an area that is void of the necessary moisture to complete the chemical process. Moisture from these gels will give an erroneously high reading.

ASTM F2170

An Electrical Conductivity or In Situ Probe Test is not acceptable. Problematic moisture is initially converted into a colloidal gel, which will indicate a flow of current. In many cases, this colloidal gel may indicate an erroneously high reading.