

APPLICATION PROCEDURES



MOXIE SHIELD 2000

PENETRATING FLOORING SEALER

MOXIE SHIELD 2000

MOXIE SHIELD 2000 Penetrating Flooring Sealer is a ready to use, multi-purpose and permanent penetrating liquid sealer/hardener specifically formulated for the flooring industry and specialty applications to stop water vapor migration and alkali efflorescence attack under flooring materials and other impermeable surface treatments.

MOXIE SHIELD 2000 Penetrating Flooring Sealer is suitable for new and existing concrete and penetrates up to seven inches to seal, protect and preserve concrete against problems caused by moisture. A superior sealer against moisture for all above and below grade as well as interior and exterior concrete. MOXIE SHIELD 2000 Flooring Sealer undergoes a complex chemical reaction by converting the by-products of cement hydration into a higher density cementitious material creating an impermeable substrate.

WATER ABSORPTION TEST

Surface is properly absorptive 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, then expose an absorptive surface. It is the Contractor's responsibility to provide an absorptive surface to allow proper penetration of MOXIE SHIELD 2000 Penetrating Flooring Sealer.

SURFACE PREPARATION

Substrate preparation is the most important factor when applying MOXIE SHIELD 2000 Penetrating Flooring Sealer. MOXIE SHIELD 2000 Penetrating Flooring Sealer is a chemically reactive, penetrating sealer that **MUST** penetrate in order to be effective. [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 2000 Penetrating Flooring Sealer. If the concrete is non-absorptive, 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 neither acceptable nor effective.

COVERAGE RATE

- For a two coat horizontal coverage, estimate approximately 150-200 sq ft per gallon on the first coat. The second coat will use about half the amount of the first coat.
- Three coats or more will be required on very porous concrete. High moisture vapor emissions (12 lbs/1000 sq ft/24 hrs to 26 lbs/1000 sq ft/24 hours or higher) will require additional applications, resulting in longer chemical reaction and drying time.

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- For best results, apply MOXIE SHIELD 2000 Penetrating Flooring Sealer when ambient

temperatures are between 65°F and 75°F and humidity levels are 50% or lower.

- Mist surface to dampen the substrate and allow to dry.
- Apply the first coat of MOXIE SHIELD 2000 Penetrating Flooring Sealer using a low pressure sprayer or by pouring and brooming evenly over the concrete substrate.
- DO NOT leave any puddling in low areas of the concrete. Product must absorb evenly and be dry to the touch within 30-45 minutes of application. MOXIE SHIELD 2000 Penetrating Flooring Sealer will dry on the surface and become difficult to remove if allowed to cure in low areas.
- Apply a second application when the surface appears to be 90% dry (three 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 30 minutes or longer, no further applications are necessary.
- After the final application has absorbed and appears dry, mist surface with clean water. Proper and complete absorption will result in an even dry look.
- 8-24 hours later, thoroughly saturate the surface with clean, clear water (equivalent to 3 mist coats). Broom out any puddling. Allow the product to cure 48-72 hours (or more) depending on the initial moisture-vapor emissions rate.

NEED MORE HELP?

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

This time is necessary for MOXIE SHIELD 2000 Penetrating 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.

HANDLING AND STORAGE

- Handling: Avoid contact with eyes, skin and clothing. Avoid breathing spray mist. Remove with running water or a damp cloth immediately.
- 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 galvanized 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.

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.

EMERGENCY OVERVIEW

Liquid, clear to hazy, odorless to musty smell. Causes moderate eye, skin, and digestive tract irritation. Spray mist causes irritation to respiratory tract. Noncombustible. Spills are slippery. Reacts with acids, ammonium salts, reactive metals and some organics.

HAZARDS IDENTIFICATION

Non-Toxic / Non-Hazardous / Non-Flammable / Water-Based and Zero VOC (EPA 24 VOC). USDA approved for use in food processing areas.

Complies with OSHA 29 CFR 1910.

TRANSPORT INFORMATION

DOT UN Status: This material is not regulated hazardous material for transportation.

DISPOSAL INFORMATION:

Classification: Disposed material is not a hazardous waste. Disposal Method: Dispose in accordance with federal, state and local regulations and permits.