



High Performance Moisture Mitigation

PRODUCT DESCRIPTION

Barrier-1 Topical System is a two component, water based, non-toxic, premixed liquid that is designed to penetrate deep into the concrete slab and stop moisture vapor emission. The system will stop hydrostatic pressure, capillary action and micro silica alkali attack. The system has zero volatile organic compounds (VOC) and requires no special handling or equipment.

APPLICATION DATA SUMMARY

Sufficiently prepare the surface of the slab as detailed below. The concrete slab should be lightly watered down prior to the application of Part 1, Barrier-1 A164 Penetrating Capillary Break. Use a low pressure sprayer to apply water to the surface spraying in an even manner.

***NOTE:** If the water sits on the surface of the substrate, the concrete is not absorbing adequately. **Do not proceed until the concrete can be analyzed for contaminants.**

After the pre-wet application of water has been absorbed but not fully dried apply Barrier-1 A164 Penetrating Capillary Break with a low pressure sprayer, constantly broom out any puddles that may have formed until Barrier-1 A164 Penetrating Capillary Break has been absorbed into the concrete slab. Barrier-1 A164 Penetrating Capillary Break will yield approximately 650 ft² per gallon per coat. Allow to dry 1 to 3 hours.

Apply a second coat in the same manner as above without pre-wetting. Approximately 650 ft² per gallon. Allow to dry 6 to 12 hours.

Apply BondTite 1503 Bond Enhancer & Moisture Proof Coating using a low pressure sprayer at a rate of 500 ft² per gallon. **Back rolling during the spray application is required. A 1/4 inch nap roller 18 inches wide is recommended. Dampen roller with BondTite 1503 prior to rolling.** Allow to dry 3 to 12 hours depending on climatic conditions.

Apply cementitious self leveling underlayment complete with manufacturers recommended primer, to a minimum depth of 1/8". Allow to dry a minimum of 16 hours before installation of resilient flooring.

SURFACE PREPARATION

Prior to the installation of the Barrier-1 Topical System, the concrete surface must be shot blasted to ensure the concrete surface is porous enough to allow the Barrier-1 Topical System to be absorbed into the capillary system of the concrete. When the larger aggregate is visible, the concrete substrate is ready for installation. International Concrete Repair Institute (ICRI) #5 profile.

All cracks, saw cuts, and control joints must be filled with a backer rod as required and a two part polyurethane, or polyurea based joint filler. Filling the cracks will prohibit moisture from migrating through these voids. Use a diamond crack chasing blade to enlarge fine cracks to a minimum 1/4" wide X 1/2" deep.

PHYSICAL DATA

Part-1
Appearance: Colorless
Odor: None
Toxicity: None
Flammability: None
Ph: 11.3
Shelf Life: (indoors @ 34-120°F) Indefinite
Pot life: Indefinite
Weight: 9lbs 2oz per gallon
Freeze Temp: 32°F
Solvent: Water
Acid Resistance: Excellent
Hazardous Vapors: None
Capillary Break: Calcium Silicate Hydrate
Installation: All grades

Part-2
Finish: Matte
Color: Clear
Components: Three
Curing Mechanism: Chemical
Volume Solids: 22.5% (Mixed Kit)
Dry Film Thickness: 5 Mils (minimum)
Total Coats: 1 or more
Theoretical Coverage: 500 sf per Gallon
VOC: 0 (zero)
Temperature limits: 200°F (100°C)
Adhesion (on Concrete): > 350 psi
Flashpoint (SETA): N/A

MOISTURE TESTING

None required. Barrier-1 Topical System has no maximum moisture vapor emission restriction.

MIXING

Follow BondTite 1503 Instructions

SHIPPING DATA

Packaging: 5Gallon, 3 Gallon & 1½ Gallon Pails

LIMITATIONS

Do not apply the product at temperatures below 50°F. Surface must be properly prepared before product can be applied. Do not apply to concrete with standing water on the surface. **Do not apply to contaminated concrete.**

WARRANTY: TOPICAL SYSTEM

Barrier-1 is formulated to eliminate the route of moisture vapor emission through concrete and meets or exceeds all guidelines pertaining to moisture emission as established by the flooring industry. This topical system carries a standard manufacturer's construction warranty for ten (10) years against moisture related flooring failure, including all finish floor materials and labor. Contact manufacturer for more information on warranty condition, duration and remedies.

COMPOSITION

Barrier-1 Topical System is comprised of inorganic chemicals that are directly inherent to concrete. This topical system will have a natural chemical reaction with the elements pre-existing inside the concrete. The chemical reaction forms a permanent barrier (capillary break) which will become integral to the concrete and irremovable.

MAINTENANCE

None.

INSTALLATION

Barrier-1 Topical System is installed by factory authorized and/or trained personnel only. For technical assistance contact Barrier-1 Inc., 2582 South Maguire Road Suite 254, Ocoee, Florida 34761
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Email: info@barrier-1.com