



## High Performance Moisture Mitigation

### **Application Instructions: Topical System**

1. Bead blast the concrete slab to an ICRI #5 profile to create a porous, exposed capillary, slab.
2. Groove all saw cuts, cracks and control joints to a minimum ¼” wide by ½” deep. Vacuum and install a backer rod if required and a two part, moisture cured, polyurea joint filler / sealant.
3. Sweep and vacuum concrete substrate.
4. Using a low pressure sprayer lightly water down the clean concrete.

**\*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.**

5. After the pre-wet application of water has been absorbed, but not fully dried, use a low pressure sprayer to apply Barrier-1 Topical System to the surface. Spray in an even manner applying at a rate of 1 gallon per 650 ft<sup>2</sup>. Measured sections in 650 ft<sup>2</sup> increments are suggested to assure correct coverage. Constantly broom out any puddles that may have formed until the Barrier-1 has been absorbed into the concrete slab.
6. After the first coat of Barrier-1 has been absorbed and is dry to the touch (1 to 3 hours), apply a second coat in the same manner as above, **without the pre-wet application.** Allow to dry 8 to 12 hours.
7. After the second coat of Barrier-1 has been allowed to dry and activate for 8 to 12 hours mix and apply a single coat of BondTite 1503 Coverage is 500 ft<sup>2</sup> per gallon. Measured sections in 500 ft<sup>2</sup> increments are suggested to assure correct coverage. Back rolling during the spray application is required. A ¼” nap roller 18” wide is recommended. Dampen roller with BondTite 1503 prior to rolling.

### **MIXING INSTRUCTIONS FOR BOND TITE 1503:**

BondTite 1503 is packaged in pre-measured containers consisting of Resin Part A and Hardener Part B which must be mixed together before use. The mixing of this product is critical and should be carefully followed; using a mechanical mixer (such as a drill) with a proper mixing attachment (jiffy mixer). Once mixing begins, it is continuous throughout the process.

- Begin by mixing Part B (Larger Container) by itself for 30 seconds.
- After mixing Part B for 30 seconds on its own, add Part A (Small Container) to Part B all the while Part B remains under agitation (mixing does not stop).

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- Mix the combined parts (A and B) for 3 minutes. (This 3 minute mixing time is critical as the two components ***must*** react for 3 minutes prior to taking further steps.
- Mixture will turn a milky white with a slight green tint.
- After the 3 minute mixing cycle, add 25% (1/4) of Part C (water) while the mixer continues to mix; the water must be at least 50°F.
- Mix for 60 seconds with high agitation.
- Add the second 25% of water and mix for 45 seconds.
- Add the last 50% of water and mix an additional 30 seconds or until uniformly mixed.

#### **One Gallon Unit:**

After mixing Part A and Part B following the instructions above, add enough water, 25% at a time, until the one gallon pail being used to mix Part A and Part B is full. Follow the instructions above carefully. It is imperative that mixing is continuous during the addition of water.

#### **Three Gallon Unit:**

The three gallon unit needs to be mixed in a larger pail (at least 3.5 gallons). If you are using an empty Barrier-1 Topical System 5 gallon pail **be sure to clean the pail completely (flush it out with water) so that no residue of Barrier-1 remains. If any residue of Barrier-1 remains the chemical reaction between Part A and Part B will be compromised.**

After mixing Part A and Part B in a larger pail for 3 minutes **add 2 gallons of water that is minimum 50°F following the instructions below** (the 1 gallon pail that contained Part B can be used to measure the 2 gallons needed).

After the 3 minute mixing cycle of Part A and Part B and while the mixer continues to mix, add ½ gallon of the water and mix aggressively for 60 seconds. Then while continuing to mix, add an additional ½ gallon and mix aggressively for 45 seconds. While continuing to mix, add the remaining 1 gallon of water and mix for a minimum of 30 seconds or until a uniform consistency is obtained.

**\*\*\* The Barrier-1 Topical System is now complete.\*\*\***

The application of cementitious underlayments, self leveling compounds, stains, dyes, resinous coatings, resilient flooring and all other intended uses can proceed following those products manufacturers' instructions for preparation and application methods.

No moisture testing is required for the Barrier-1 High Performance Moisture Mitigation Topical System warranty to be issued.

**This Topical System Can Only Be Installed By Factory Trained Personnel.**

**Barrier-1 Topical System Is A Complex Inorganic Formula That Contains Zero VOC's (Volatile Organic Compounds) And Has No Odor.**

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