



## High Performance Moisture Mitigation

### PRODUCT DESCRIPTION

Barrier-1 Topical System is a one 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 Barrier-1. 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 Topical with a low pressure sprayer, constantly broom out any puddles that may have formed until Barrier-1 has been absorbed into the concrete slab. Barrier-1 will yield approximately 650 ft<sup>2</sup> 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 ft<sup>2</sup> per gallon.

### 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 Barrier-1 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 ¼" wide X ½" deep.

### PHYSICAL DATA

Appearance: Colorless  
Odor: None  
Toxicity: None  
Flammability: None  
Ph: 11.3  
Shelf Life: (indoors @ 34-120°F) 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

### MOISTURE TESTING

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

### MIXING:

No mixing required

### SHIPPING DATA

Packaging 5 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 Inc. (manufacturer) warrants its product, Barrier-1 Topical System, to be free from material defects and that the product conforms to its current applicable specifications of stopping moisture vapor emission from the concrete itself, for a period of **ten years**. The warranty period starts from the date of the original installation. This warranty covers only those flooring failures associated with moisture vapor emission and is provided if the said products are installed according to, and in compliance with the instructions and the requirements of the manufacturer. Moisture testing is not required for the installation of Barrier-1 Topical System. Barrier-1 Topical System has no maximum moisture vapor emission restriction. In the event there is a moisture vapor emission complaint, Barrier-1 Inc. reserves the right to inspect and test any and all materials to determine the source of the problem. The sole and exclusive remedy of purchaser for any claim concerning this product, including, but not limited to, claims alleging breach of warranty, negligence, strict liability or otherwise, is the placement of a topical moisture remediation material and the labor and materials (like the original installed products) required for the removal, replacement or repair of damaged floor covering materials, at the sole option of Barrier-1 Inc. The manufacturer shall in no way be responsible for any acts of nature, inferior concrete, concrete additives, contaminants in the concrete, cracks or voids resulting after the product application, any incidental or consequential damage, including without limitation, damage for lost profits, business interruption, property damage, economic loss or injuries to the person. Manufacturer shall not be liable to the buyer for contribution, or indemnity, or for other losses arising from the use of the products.

Any and all disputes or claims arising out of these products or relating to the provisions of the warranty must be arbitrated in Orlando, Florida utilizing the services of a neutral dispute resolution service upon which the buyer and seller agree, or if they cannot agree, then the services of the American Arbitration Association will be utilized.

Manufacturer claims policy is as follows: claims will not be considered until the flooring material and adhesive has been inspected by one or more of the following: company representative, or independent inspection service of manufacturer's appointment.

There are no other warranties expressed or implied including, but not limited to, any implied warranty of merchantability or warranties of fitness for a particular purpose.

All accounts must be paid in full prior to any warranty being issued or enforced

## **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  
Ph: 877.224.5850  
Email: info@barrier-1.com

*Any recommendation or suggestion relating to the use of the products made by Barrier-1 Inc., whether in its technical literature, or in response to specific inquiry or otherwise, is based on data believed to be reliable; however, the products and information are intended for use by Buyers having requisite skill and know-how in the industry, and therefore it is for the Buyer to satisfy itself of the suitability of the products for its own particular use and it shall be deemed that Buyer has done so, at its sole discretion and risk. Variation in environment, changes in procedure of use, or extrapolation of data may cause unsatisfactory results.*