



## **Morricite MVP Barrier 300 Moisture Control**

### **DESCRIPTION**

**Morricite MVP** is a system formulated to seal concrete surfaces that exhibit excessive moisture vapor transmission. It is composed of **Morricite MVP 300** and **Morricite MVP 350**. This system is designed specifically for damp, green and lightweight concrete.

The **Morricite MVP Barrier System** is designed to eliminate moisture problems due to vapor transmission in concrete. MVP is compatible with MasterFlex flexible membrane prior to application of Morricite Epoxy Terrazzo or other impermeable or moisture sensitive finishes.

### **BENEFITS**

- Low viscosity allows excellent penetration of concrete substrates.
- Excellent adhesion to green concrete.
- Sustains high alkalinity to pH of 14 and resists high moisture levels (95% RH).
- Zero VOC
- MVP 300 may be rolled, notch-squeegee or spray applied.
- MVP 350 may be rolled or notch-squeegee.
- Mitigates moisture problem facing Epoxy Terrazzo matrix
- Easy to clean up
- Tolerates moisture vapor transmission rates up to 20 pounds per 1000 sq. ft. per 24 hours as measured by ASTM F 1869 or up to 95% as measured by ASTM F 2170.

### **ASTM E96 Test Results**

Morricite MVP BARRIER SYSTEM APPLIED AT 11 MILS DRY COATING THICKNESS. Wet Method

#### Water Vapor Transmission Rate

	<b>Morricite Barrier System</b>	<b>Uncoated Concrete Control</b>
<b>Pounds / 1000 ft<sup>2</sup> / 24 hours</b>	1.98	19.9
<b>Grams / h* m<sup>2</sup></b>	0.403	4.05

#### Water Vapor Permeance

	<b>Morricite Barrier System</b>	<b>Uncoated Concrete Control</b>
<b>Perm (inch-Pound)</b>	.132	13.3
<b>Grams / Pa*s*m<sup>2</sup></b>	7.55 x 10 <sup>-8</sup>	7.61 x 10 <sup>-7</sup>

### **SURFACE PREPARATION**

- Concrete slab shall have a 15 mil moisture/vapor barrier, consistent with flexible, preformed sheet membrane materials as found in ASTM E1745. These sheet goods will be placed directly under the concrete slab, on grade.
- Do not use or allow curing agents to be used on slab surface.
- If the slab being treated has been recently poured, you may apply MVP as soon as the bleed water evaporates from surface of slab.
- Ensure that all surface contaminants are removed by shot blasting.

- The surface shall be prepared mechanically for the Terrazzo installation by shot blasting. Surface should achieve a CSP3-CSP4

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## INSTALLATION INSTRUCTIONS

**Morrците MVP 300** is a three-component product. Read instructions carefully before beginning in order to properly mix and apply MVP as specified. The slab that is to be treated, and all of the materials that are used, will need to be maintained at temperatures no less than 60°F and no greater than 90°F for 24 hours before, during and after installation. Using the white pail provided, pour Morrците MVP 300 Part B (Hardener) into the clean white pail and then mix Part A (Resin) into Part B. With a slow speed mixer, mix thoroughly for a minimum of 3 minutes to produce a homogeneous “off white” emulsion. Add one gallon of water slowly while continuously mixing. Continue to mix for several minutes to ensure that the MVP is fully mixed. Apply **Morrците MVP 300** at a rate of 200 sq ft per gallon for a total of 425 sq ft per complete unit. The **Morrците MVP 300** can be rolled, sprayed or applied with a V-notched squeegee onto the concrete. Performance issues could develop if the recommended rate is not followed. Avoid leaving any puddle of **Morrците MVP 300**. It is recommended that the material be applied to a damp but not wet concrete substrate. Do not coat over standing water on the concrete substrate. Allow product to cure overnight.

Thoroughly mix the two-component **Morrците MVP 350** Part A to Hardener Part B at a mix ratio of 2 to 1 by volume. Stir for 45 to 60 seconds. DO NOT OVER MIX. Apply by roller or notched squeegee at a rate of 250 sq ft per gallon, depending on substrate porosity. Proceed with normal sequence of terrazzo installation after **Morrците MVP 350** has been applied.

Coverage will vary depending on the porosity of the concrete and the profile of the surface being coated. When MVP is applied to light-weight concrete, coverage rates will decrease.

## ADDITIONAL CONSIDERATIONS

Do not use in temperatures below 60°F. Do not use where known hydrostatic pressure exists. Where relative humidity exceeds 95% and/or moisture vapor transmission rates exceed 20 lbs per 1,000 sq ft per 24 hours, contact Master Terrazzo Technologies Customer Service Department, or your local/regional representative. **MVP 350** must be recoated within 48 hours.

## SAFETY

For industrial and professional use **ONLY**. **Morrците MVP Barrier System** should be installed by approved applicators only. The usual safety precautions when handling chemicals must be observed. These include the measures described in Federal, State, and Local health and safety regulations, thorough ventilation of the workplace, good skin care, and wearing protective goggles. Detailed safety guidelines are found in the Safety Data Sheet (SDS) for **Morrците MVP 300** and **Morrците MVP 350**.

## WARRANTY INFORMATION

Values stated herein are typical values based on periodic testing and product experience. MTT DISCLAIMS ALL OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION THOSE OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE. Where customer demonstrates non-conformance of product to typical values stated herein, MTT will supply replacement product or, at its discretion, credit customer’s account for the purchase price of non-conforming product. Recommendations herein as to the surface preparation, application, maintenance, and other matters involving storage, handling, or use of product are based on the best information available. Because MTT has no control over such matters, or over substrate or other conditions that may affect ultimate performance, customer has the obligation to determine suitability of product for the intended purpose. MTT SHALL HAVE NO RESPONSIBILITY FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, EXEMPLARY OR PUNITIVE DAMAGES BUT ONLY FOR THE REPLACEMENT OR CREDIT MENTIONED ABOVE. All claims for replacement or credit must be made within one year from date of shipment. The sale and purchase of product from MTT are subject in each case to MTT’s terms and conditions of purchase.