



## **MVEP-15**

### Product Information

Category: Epoxy Flooring System

Semi-clear

**Series 2200**

3 gal kit

2:1 A to B

---

### **Description and Use:**

This is a two-component, 100% solids, low viscosity, moisture accepting epoxy primer can reduce the hydrostatic pressure emitted by applying directly to concrete surfaces from 15 psi per 1000 sq. ft. to less than 2 psi.

MVEP-15 can even cure underwater without affecting its adhesion. When applied at 73°F / 50% humidity, MVEP-15 has a 20–30-minute working time and a 12-24-hour cure.

MVEP-15 is a primer coat and requires a subsequent tinted epoxy or tinted sealer coat. A 100% full broadcast of chips of earthtone colors may suffice as a covering before sealing with a high-performance UV resistant sealer.

This engineered product used in the following applications:

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Floor Overlays | <input type="checkbox"/> 3D                         |
| <input checked="" type="checkbox"/> Interior       | <input checked="" type="checkbox"/> Epoxy Flooring  |
| <input checked="" type="checkbox"/> Exterior       | <input checked="" type="checkbox"/> Shower FX       |
| <input type="checkbox"/> Countertop                | <input checked="" type="checkbox"/> Outdoor Islands |

### **Its significant characteristics include:**

- ✓ Meets USDA COMPLIANCE criteria.
- ✓ 100% Solids
- ✓ Low Viscosity and Low VOC
- ✓ High Build
- ✓ Moisture Tolerant
- ✓ Convenient 2:1 Mix; A:B=2:1
- ✓ Superior adhesion and initial tackiness

### **Finish:**

Not for finishing but to be used only as a primer

### **Color:**

Semi-clear

### **Coverage:**

The proper coverage of MVEP-15 varies on the level of moisture vapor emissions discovered on the job. **Typical application should closely cover 100 sq. ft. (16 mils) (300sf/kit).** If an excessive amount of Vapor Pressure is present (> 8 lbs./1000 ft<sup>2</sup>/24hr), second coat of MVEP-15 is suggest to be applied at the same 100 ft<sup>2</sup>/gal (16 mils) coverage.

With the right surface preparation, this extra protection should provide protection up to 15lbs. MVEP

may be applied at a heavier rate to achieve a higher build system or to accommodate the broadcasting of aggregates.

### **Packaging:**

3-gallon kits: (2-gallon part A to 1-gallon part B)

### **Inspection:**

Concrete must be clean, dry, and free of grease, paint, oil, dust, curing agents, or any foreign material that will prevent proper adhesion. The concrete should be porous and can absorb water. A minimum of 14 days cured is required on all concrete. Relative humidity in the concrete floor slab should be below 80% (per ASTM F-2170).

Before starting flooring work, test existing concrete slab to make sure there is no efflorescence or high levels of alkalinity. Alkalinity refers to a high pH reading which means the floor is not neutral. A high alkaline environment can cause salts to creep up through the cement called efflorescence. These salts tend to prevent or destroy the bonding of coatings to the concrete. The most common form of testing is the use of a wide-range pH paper or tape. Make sure the floors pH reading ranges between 5-9 to ensure adhesion. The testing of concrete for alkalinity can show the amount of alkalinity only at the time the test is ran and cannot be used to predict long-term conditions.

Calcium chloride tests should be conducted to determine if the concrete is sufficiently dry for an epoxy flooring installation. The calcium chloride tests should be conducted in accordance with the latest edition of ASTM F 1869, Standard Test Method for Measuring Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride. When running a calcium chloride test, it is important to remove any grease, oil, curing agents, etc. so accurate readings can be obtained.

Failing to adhere to these strict guidelines can result in product delamination, discoloration, blistering, or altogether failure of the coating system. Testing is the responsibility of the installer as Granicrete bears no responsibility for failures due to any of the above conditions.

### **Surface Preparation:**

Concrete surfaces shall be bead blasted or diamond grinded to remove all surface contaminants and laitance. The concrete should be at least 2500 psi and have an ICRI concrete surface profile within 3-5. After initial preparation, has occurred, inspect the concrete for imperfections and treat as necessary.

Best results will allow concrete to breathe for a minimum of 24 hours after preparation and before application of MVEP-15. Cracks and spalling should be mended prior to applying MVEP-15. Any high spots need to be ground smooth. For surface preparation recommendations consult the Technical Service Department. All expansion joints should be honored.

### **Mixing:**

Mix Part A for 30-45 seconds. Shake Part B and then add to Part A. Mix A & B for two minutes Mix with a slow speed drill mixer (300 rpm). Be sure to scrape sides and bottom during mixing. Mixed material should be promptly used and spread out as MVEP-15 will have approximately 20-30 minutes of working time. Mix smaller amount at 2:1 for cutting in perimeter and promptly follow by mixing the rest of kit for roll out.

### **Thinning:**

Do not thin.

## Application:

**Pour contents out. Do not let contents heat in mixing container.** Poured out contents have a 20–30-minute working time.

**As a primer:** Immediately after mixing, spread a strip of the batch onto the surface along the edges where it will be cut in using a brush. Pour the remaining material near the cut in area and spread evenly using a trowel or squeegee and back roll using a 3/8" nap non-shedding roller.

Spread over surface using a squeegee and roll promptly with a 3/8" nap lint free roller.

If applying for primer under an overlay, broadcast 30 grit silica sand until refusal while MVEP-15 is wet. After complete drying then scrape and lightly sand surface to desired roughness for the overlay to bite to.

## Drying Time:

You may re-coat as soon as the surface is dry to touch at about 12-16 hours application. If exceed 20 hours, surface must be sanded and solvent wiped before next coating can be applied.

Full cure is reached in 5-7 days.

## Handling Precautions:

Refer to SDS before using.

## Limitations:

- Do not apply at any temperature below 55° F or above 90°F during application.
- Epoxy must be cured for a minimum of 24 hours before encountering water.
- MVEP-15 is a primer coat and requires a subsequent tinted epoxy or tinted sealer coat. A 100% full broadcast of chips of earthtone colors may suffice as a covering before sealing with a high-performance UV resistant sealer.

## Clean Up:

Uncured material can be removed with a solvent. Cured material can only be removed mechanically.

## Technical Data:

<b>Mix Ratio, by Volume</b>	<b>2 parts resin / 1 part hardener</b>	
<b>Test Temperature / Relative Humidity</b>	<b>73°F / 50%</b>	<b>90°F / 35%</b>
<b>Mixed Viscosity, cP</b>	<b>1,150</b>	<b>500</b>
<b>Gel Time (100g mass), minutes</b>	<b>47</b>	<b>34</b>
<b>Dry-through Time, hours</b>	<b>6</b>	<b>2</b>
<b>Visual Appearance</b>	<b>Glossy</b>	<b>Glossy</b>
<b>Mechanical Properties</b>		
<b>Pencil Hardness</b>		<b>2H</b>
<b>Persoz Hardness, seconds</b>		<b>167</b>
<b>Cross-cut Adhesion</b>		<b>5A</b>
<b>Impact Resistance (D/R), in lb.</b>		<b>42 / 0</b>
<b>Elcometer Pull-off Adhesion 73°F / 50%</b>	<b>800 psi (dry concrete)</b>	

Wear Personal Protective Equipment  
Read SDS before using this product.  
**DOT Regulated. See SDS**

**Manufacturer/Distributor Warranty:** As neither the manufacturer nor the distributor has control over the actual installation of this product, the manufacturer and distributor disclaim any and all warranties expressed or implied regarding color shade, appearance, and product performance at and after opening product containers. Manufacturer recommendations and suggestions are made without guarantee. Conditions of installer's and consumer's use of this product are beyond the control of manufacturer and distributor. Manufacturer disclaims any liability incurred in connection with the use of this product or information contained herein.