

## DESCRIPTION

Ecocrete Moisture Barrier Primer (MBP) is a two component, 100% solids, modified liquid epoxy with superior adhesion, moisture tolerance, flexibility, chemical and impact resistance. MBP will cure faster in warmer temperatures. MBP will bond to dry or damp concrete. Moisture Barrier Primer will stop up to 10lbs of MVE/MVT x 1,000 sq ft x 24/hours when applied at a minimum of 10 mils.

## TYPICAL USES

- Automotive facilities
- Aviation hangars
- Interior and exterior applications
- Maintenance coatings
- Industrial coatings
- Commercial and residential applications
- Marine coatings
- Primer for floor coatings
- Under VCT, Sheet Vinyl & other non-permeable floor coverings

## TECHNICAL DATA

Solids by Weight .....	100%
Compressive Strength ASTM D695.....	8,000 psi
Tensile Strength ASTM D638.....	7,500-8,000 psi
Adhesion to Concrete ASTM D4541.....	450-600 psi
Shore Hardness .....	85
Water Absorption, Gain in 24 hrs ASTM D570 .....	<1%

## STORAGE & INSTALLATION @75°F

Storage Environment .....	Dry area, 40-85°F
Application Temperature, ambient .....	50-95°F
Application Temperature, material .....	50-70°F
Application Temperature, substrate .....	Minimum 5°F above dew point
Pot Life .....	~5 minutes
Working Time .....	~25 minutes
Shelf Life .....	1 year
Dry Time for Recoat .....	8-10 hours
Dry Time for Light Foot Traffic .....	12-14 hours

*Material cures more slowly at cooler temperatures and working time will be substantially reduced at higher temperatures. The optimum temperature for installation of this product is 65-85°F. Contact Ecocrete Coatings if temperatures are outside this range. At lower temperatures, the material will be more viscous and difficult to move, requiring more effort to install. At elevated temperatures, the material will cure more quickly, so applicator will need to work accordingly.*

## CONSIDERATIONS & LIMITATIONS

- 1) Prepare substrate according to 'Surface Preparation' section of this document.
- 2) If applying a cementitious flooring system over MBP, a mechanical bond is needed.
  - a. Option 1: Apply a skim coat of Ecocrete Eco-Top MB (refer to Eco-Top MB TDS for application instructions) or
  - b. Option 2: Apply a 2<sup>nd</sup> coat of MBP @ 8 mils with 30 grit sand broadcast to rejection. Allow to cure. Vacuum clean.
- 3) May reflect moving cracks and control joints.
- 4) Recoat window is 24-36 hours, exterior use in direct sunlight will shorten recoat window.
- 5) If used outside in direct sunlight and material shells over or if outside recoat window, it is required to sand and vacuum clean, solvent wipe with acetone and then recoat.
- 6) Concrete substrate should be professionally tested with calcium chloride for moisture vapor emission and transmission to determine hydrostatic pressure prior to the installation of any polymer flooring system. *If test are above 10lbs x 1,000 ft<sup>2</sup> x 24/hr substrate, consult Ecocrete Coatings.* MBP may be used up to 98% RH.
- 7) Perform relative humidity test using in situ probes, ASTM F2170. Proceed with installation only after substrates have a maximum 98% relative humidity level measurement.
- 8) Always use protective clothing, gloves, and goggles consistent with OSHA regulations during use. Avoid eye and skin contact. Do not ingest or inhale. Refer to Safety Data Sheet for detailed safety precautions.
- 9) For industrial/commercial use. Installation by trained personnel only.

# MOISTURE BARRIER PRIMER

## TECHNICAL DATA SHEET & APPLICATION INSTRUCTIONS

## HIGH PERFORMANCE MOISTURE REMEDIATION EPOXY PRIMER

## BENEFITS

- Superior moisture tolerance, adhesion & flexibility
- Chemical and impact resistance
- Excellent primer for thin-film & high-build coating systems (i.e. Color Chips, Color Quartz), resinous & cementitious systems, and under VCT, sheet vinyl, terrazzo, rubber flooring, etc.
- Qualifies for LEED projects

## TYPICAL APPLICATION

- One Coat – Ecocrete Moisture Barrier Primer base coat @ 10 mils

## PACKAGING & COVERAGE

- 1 Gallon Cans (1 Gallon Kit)
- 5 Gallon Pails (25 Gallon Kit)
- 160 ft<sup>2</sup>/gal @ 10 mils

## 🔗 SURFACE PREPARATION

- The surface must be clean and sound, free from dirt, oil, grease, and any other contaminants that may inhibit bond.
- All surface irregularities, cracks, expansion joints, and control joints should be properly addressed after application.
- Properly cover areas not to receive product.

**Crack Repair:** Route out cracks with diamond crack chaser and vacuum clean. Prime with MBP neat and then thicken the MBP with Epoxy Thickener to create a peanut butter consistency and fill crack pulling flush with putty knife or leave slightly high and allow to cure. Then grind smooth for best results. *(This method is for under pigmented coating systems, not for exposed exterior applications.)* [Refer to Epoxy Thickener TDS for further details.]

Refer to Ecocrete's Surface Preparation Guidelines for detailed instructions available at [www.ecocretecoatings.com](http://www.ecocretecoatings.com).

## 🔗 MIXING & APPLICATION STEPS

- **MIX RATIO: 3A : 2B (by volume)**

- 1) Pre-mix each component separately prior to mixing together; cleaning the mixing paddle before switching products to not cross contaminate.
- 2) Mix Part A with Part B for 3 minutes, scraping the sides and bottom of mixing container, with a power drill and mixing paddle.
- 3) Immediately after mixing, pour material out in an even row on substrate. Use a chip brush to cut in and/or a squeegee to spread material uniformly at the proper mil thickness across the floor. Roll material using a 3/8" nap roller to a uniform appearance.
- 4) Allow to cure.

Notes:

- If pinholes are present once first coat is dry due to porosity of concrete substrate, apply a second coat @ 8-10 mils.
- Do not walk on material with spiked shoes after it has been back rolled.

## 🔗 CARE & MAINTENANCE

Refer to Ecocrete's Care & Maintenance Guidelines available at [www.ecocretecoatings.com](http://www.ecocretecoatings.com).

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