

# Engrave-A-Crete, Inc.

## High Solids Moisture Vapor Barrier Epoxy Primer System INSIDE MOISTURE BARRIER EPOXY CR-536

**INSIDE MOISTURE BARRIER EPOXY** is a high performance epoxy primer system designed to reduce water vapor transmission. When applied to properly prepared concrete, **INSIDE MOISTURE BARRIER EPOXY** has shown to have improved adhesion to concrete surfaces where moisture is an issue and other high performance coatings have failed.

- ◆ Superior adhesion for concrete affected by moisture vapor transmission
  - ◆ Excellent base coat for many epoxies and urethanes
  - ◆ Performs well where other coatings fail

**INSIDE MOISTURE BARRIER EPOXY** is designed for a variety of concrete flooring applications. It is an excellent primer for auto service centers, warehouses, computer rooms, laboratories, aircraft hangars, cafeterias, exterior tanks and other areas affected by high moisture vapor transmission.

### TECHNICAL INFORMATION

Drying Time.....	4 - 10 hours
Re-Coat Time.....	8 - 24 hours
Foot Traffic.....	12 - 24 hours
Wheel Traffic.....	24 - 48 hours
Application Temp.....	50°F - 80°F
Wet Appearance.....	Clear
Dry Appearance.....	Clear
VOC Content.....	<5 g/l
Blush Resistance.....	Good
Solvent Resistance.....	Good
Concrete Adhesion.....	Excellent

*\*\*\*Please note that low air and/or concrete temperatures and/or relative humidity may extend drying times. Follow recommended coverage rates for best results.*

### SPECIFICATIONS/COMPLIANCES

Perm rating 0.065 perms @ 30 mils thickness

### APPROXIMATE COVERAGE RATES

<u>Application Surface</u>	<u>First Coat</u>	<u>Optional Second Coat</u>
New (unsealed) concrete	200-250 ft <sup>2</sup>	200-250 ft <sup>2</sup>

*\*Coverage rates vary depending upon surface porosity and texture, and application method. Excessive build up should be avoided.*

### SHELF LIFE/PACKAGING

**INSIDE MOISTURE BARRIER EPOXY** has a shelf life of one year from manufacture date in it's original, sealed, unopened container.

**INSIDE MOISTURE BARRIER EPOXY** is packaged in 1.5 gallon and 3 gallon kits.

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## INSTRUCTIONS FOR USE

**SURFACE PREP:** A fine to medium shot blasting or the use of a diamond grinding machine to obtain a surface profile of a CSP - 3 to a CSP - 5 is suggested for ultimate adhesion. A test should be made to determine that the concrete is dry; this can be done by placing a 4 x 4 plastic sheet on the substrate and taping down the edges. If after 24 hours, the substrate is still dry below the plastic sheet, then the substrate should be ready to coat. More advanced moisture testing kits should be used on floors with suspected moisture problems. Apply coating to a clean surface that is completely dry and free of oil, dirt, grime, wax, detergent or any incompatible paint or coating. If multiple coats of **INSIDE MOISTURE BARRIER EPOXY** are required, apply the second coat as close as possible to the suggested recoat time (see technical information section on this data sheet). Do not exceed 24 hours to recoat or a light sanding may be needed for adequate adhesion between coats. Fill cracks and spalls with Rapid Set 100. (See Rapid Set 100 technical data prior to use.)

Substrate and air temperature must be no less than 40° F and not exceed 80° F. If applied outside these limits the sealer may not achieve adequate film formation and may have excessive air entrapment, bubbles, blushing or hazing. Note that in direct sunlight, substrate temperature can exceed 150° F which can cause extreme bubbling issues.

**MIXING:** Mix Part A & Part B separately with a stir stick, low speed mixer or vigorously shake container prior to blending the smaller kit to ensure uniform distribution of all ingredients. Mix only full, pre-packaged kits. Do not separate into smaller kits. Pour a full pre-packaged kit of 2 parts of Part A to 1 part of Part B together and mix well with slow speed mixing equipment such as a jiffy mixer for 2 full minutes to ensure the material is thoroughly mixed and homogenous. Avoid whipping air into the coating. Improper mixing may result in product failure.

**COVERAGE RATE:** First Coat : 200 - 250 ft<sup>2</sup> per gallon\*

\*Coverage rates may vary depending upon surface porosity, texture, application method and prior sealer application. Excessive build up should be avoided.

**APPLICATION:** Apply the mixed material by brush or roller with a 1/2" nap - 3/4" nap shedless roller cover within the usable pot life time frame, at 200 - 250 sq. ft. per gallon. A second applicator on spiked shoes should be backrolling the wet material to ensure uniform distribution. If the material becomes thick while applying and sticking to the roller, stop applying and discard the mixed material. At this point it has reached the end of the usable pot life. While applying keep a wet edge to prevent roller marks. It is recommended to work in sections usually using control joints as dividers to ensure proper application results. Do not allow to Puddle! If recoating after 24 hours a light sanding using a fine sanding screen may be needed to ensure adequate inner coat adhesion.

**PLEASE NOTE:** Applying material outside the suggested parameters may result in product failure. It is always recommended to test the product in a small, inconspicuous area (on the same concrete substrate) for desired results prior to application. Coverage rates may vary for all coatings and substrates depending on porosity, density, texture etc. When applying, do not exceed 400 sq. ft. per gallon. Applying too thin of a coating may cause inadequate film formation or performance expectations may be limited. **DO NOT USE ON BRICK.**

## CLEAN UP

Use Xylene, Acetone or MEK. Dispose of containers in accordance with local and federal regulations.

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## PRODUCT REMOVAL

Dried, cured sealer may be removed with a commercial epoxy stripper or by using a diamond grinding method, sandblasting method or similar mechanical action.

## PRECAUTIONS AND LIMITATIONS

- ▶ This product will freeze during storage. Store at temperatures above 40°F.
- ▶ All HVAC ventilation ducts should be somehow blocked prior to application so solvent fumes are not distributed.
- ▶ If using indoor, use proper ventilation while applying and for hours after application to ensure fumes are removed.
- ▶ This product is NOT intended for use over vegetable oil, animal fat or synthetic oil contaminated concrete.
- ▶ This product can withstand exposure to many common solvents and chemicals.
- ▶ It is not recommended to apply product over carpet, tile, or other types of floor adhesives.
- ▶ Please be aware that this product when cured may be slippery when wet. An anti-slip additive can be added to reduce slip hazards.
- ▶ All new concrete must be cured for at least 28 days prior to application.
- ▶ It is not recommended to thin product. Improper thinning may cause sealer to delaminate in a short time frame.
- ▶ This product may darken the surface of many new and existing concrete slabs. Test prior to use.

Please consult Safety Data Sheet (SDS) and read Warranty information prior to use. This information can be requested by contacting customer service at 417-924-2300.

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