

DESCRIPTION

Ecocrete Epoxy Coating is a two component, zero VOC, 100% solids epoxy. Epoxy Coating may be used as a top coat and/or a binder resin for decorative color quartz flooring, color chips, mortar and slurry flooring systems. Also as an interior finished floor over approved primer, such as Ecocrete's Epoxy Primer and Moisture Barrier Primer (MBP). Epoxy Coating is available in clear or 15 standard colors.

TYPICAL USES

- Interior applications
- Mortar & slurry flooring systems
- Decorative color chip & quartz flooring systems
- Floor coatings
- Marine coatings
- Commercial and residential
- Industrial coatings
- Maintenance coatings

TECHNICAL DATA

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|---|-------------------------------------|
| Solids by Weight..... | 100% |
| Compressive Strength ASTM D695..... | Color: 10,500 psi Clear: 11,000 psi |
| Tensile Strength ASTM D638..... | 10,000 psi |
| Adhesion to Concrete ASTM D4541..... | 400-500 psi |
| VOC..... | 0 g/l |
| Water Absorption, Gain in 24 hrs ASTM D570..... | <1% |

STORAGE & INSTALLATION @ 75°F

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| 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 |
| Light Vehicular Traffic..... | 72 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 it. 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) May reflect moving cracks and control joints.
- 3) Not UV stable.
- 4) For exterior applications, a top coat of our pigmented aliphatic urethane, Urethane-CR Color is required when using Epoxy Color as a base coat.
- 5) Recoat window is 24-36 hours, exterior use in direct sunlight will shorten recoat window.
- 6) If used outside in direct sunlight and material shells over, it is required to sand and vacuum clean, solvent wipe with acetone and then recoat.
- 7) 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 3lbs x 1,000 sq ft x 24/hr substrate must be primed with Ecocrete MBP.
- 8) Perform relative humidity test using in situ probes, ASTM F2170. Proceed with installation only after substrates have a maximum 75% relative humidity level measurement.
- 9) It is recommended to use a non-slip additive for all exterior applications or wet areas. It is the end users' responsibility to determine amount of non-slip needed for their environment.
- 10) 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.
- 11) For industrial/commercial use. Installation by trained personnel only.

EPOXY COATING

TECHNICAL DATA SHEET & APPLICATION INSTRUCTIONS

100% SOLIDS EPOXY COATING & BINDER RESIN

BENEFITS

- Excellent for thin-film and high-build coatings systems, color chip, color quartz, and for all our other interior resinous flooring systems
- Epoxy Clear can be used for integral epoxy cove base when mixed with Ecocrete Epoxy Thickener
- Zero VOC content & Low odor
- Qualifies for LEED projects
- Can be applied in slurry or mortar applications @ 250 mils

TYPICAL APPLICATION

- One – Two coats – Ecocrete Epoxy Coating Clear or Color @ 10-20 mils per coat

STANDARD FINISHES

- Clear
- Black
- White
- Bone White
- Wheat
- Light Brown
- Dark Brown
- Mocha
- Natural Gray
- Light Gray
- Dark Gray
- Charcoal
- Tile Red
- Forest Green
- Safety Red
- Safety Yellow

PACKAGING & COVERAGE

- 1 Gallon Cans (1 Gallon Kit)
- 5 Gallon Pails (25 Gallon Kit)
- 160 ft²/gal @ 10 mils
- 80 ft²/gal @ 20 mils

🔗 SURFACE PREPARATION

- The surface must be clean and sound, free from dirt, oil, grease, and any other contaminants that may inhibit bond.
- Prime substrate with Ecocrete Epoxy Primer or Moisture Barrier Primer.
- All surface irregularities, cracks, expansion joints, and control joints should be properly addressed prior to application.
- Properly cover areas not to receive product.

Crack Repair: Route out cracks with diamond crack chaser and vacuum clean. Prime with Epoxy Primer neat and then thicken the Epoxy Primer 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.]*

Note: Use MBP same way as listed if using MBP due to MVE or MVT.

Refer to Ecocrete's Surface Preparation Guidelines for detailed instructions available at 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 or once dry for recoat, repeat steps 1-3 to apply a second coat if required.

Notes:

- Wear spiked shoes while spreading material so you can walk on material to back roll.
- Keep a wet edge while applying.

🔗 CARE & MAINTENANCE

Refer to Ecocrete's Care & Maintenance Guidelines available at www.ecocretecoatings.com.

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