



CE330 EPOXY BINDER

LOW MODULUS EPOXY POLYMER BINDER

DESCRIPTION

FasTrac CE330 Epoxy Binder is a two-component, 100% solids, moisture-tolerant, high strength, low modulus, multi-purpose epoxy adhesive. It meets ASTM C881 and AASHTO M235, Type III, Classes B & C specifications.

USE

Used as a binder for High Friction Surface Treatment (HFST) and other bonded aggregate surface treatments on portland cement concrete, asphalt pavements and other approved substrates such as airport taxiways and ramps. CE330 is also used for bonding thin overlays on bridge and parking decks, as well as for bike and bus lane demarcation with colored aggregate.

FEATURES

- High strength, low modulus epoxy binder
- Rapid cure return to traffic formula
- Technical support from experienced technicians
- Independent testing lab certification
- Convenient 1:1 mix ratio by volume
- Mends cracks on HFST or bridge deck overlay applications
- Protects concrete from water and deicing salts
- Chemically resistant to fuel and antifreeze
- Made in the USA

PACKAGING AND YIELD

- 600 ml cartridge
- 2 gal / 7.6 L unit
- 10 gal / 38 L unit
- 500 gal / 1,893 L unit

PHYSICAL PROPERTIES

Shelf Life: 2 years in original unopened containers

Storage Conditions: 40°F-95°F (5°C-35°C)

Conditioning: 65°F-85°F (18°C-29°C) before using

Mix Ratio: 1:1 by volume

Viscosity: 1,500 cP

Gel Time (60g): 15 minutes

Shore D Hardness: 70

Tack Free Time: (75°F/24°C): <3 hours

Tensile Strength (ASTM D638): 2,800 psi (19.3 MPa)

Tensile Elongation (ASTM D638): 40%

Bond Strength (ASTM C882): 2 day cure 2,000 psi (13.8 MPa)
14 day cure 2,800 psi (19.3 MPa)

Compressive Strength (ASTM C579): 3 hour cure 1,500 psi (10.3 MPa)
24 hour cure 5,000 psi (34.5 MPa)

Bond Strength (ASTM C1583/ACI 503R): 300 psi (2.0 MPa)

Shrinkage (ASTM D2566): 0.2%

Thermal Compatibility (ASTM C884): Pass

Heat Deflection Temperature (ASTM D648): 120°F (49°C)

Absorption (ASTM D570): 0.2% (24 hr)

Chloride Ion Permeability (AASHTO T277): 0.0 coulombs

CURING TIME (HRS.)

Temperature (°F): 40 45 50 55 60 65 70 75 80 90 100

CE330 Regular: 16 12 10 8 6 5 4 3 2.5 2 1

CE330 with Acc.: 12 10 8 6 4

CE330 Low Temp.: 8 6 5 4 3

APPLICATION

SURFACE PREPARATION:

General Guidance Recommendation

Surface must be clean and sound. Surface should be visibly dry. No standing water. Concrete moisture levels must be less than 5 % when measured using a multi-pin moisture meter.

Remove dust, laitance, grease, curing compounds, impregnations and other contaminants. Concrete surfaces should be shot blasted to a CSP 3-5 per ICRI.

Condition material to 65°F - 85°F (18-29°C) for optimum application. Minimum age of concrete 21- 28 days, depending on mix design.* Minimum age of asphalt is 30 days and 75 % aggregate exposure.*

**Consult Cornerstone Construction Material Technical Services for applications outside these parameters.*

General Guidance Recommendation

Utilize the following method to apply the resin binder under manufacturer's recommendations: Manual applications are allowable for locations of less than 500 square yards, please refer to your local technical sales representative 816-380-1082.

Automated Continuous Application

Automated continuous application must be performed by an applicator vehicle with a minimum of 1100 gallons of the polymer resin binder. The applicator vehicle must continuously mix, heat, meter, monitor and apply the polymer resin binder in a continuous pass as one layer.

General Application / High Friction Surface Treatment

The bauxite high friction aggregate and polymer resin binder shall be dispensed equally across the entire application surface in a manner that covers the surface area to be treated at the mil thickness of 65±5 mils without any breaks, swirls, ridge lines or differential thickness of the polymer resin binder over the area being treated, the bauxite high friction aggregate shall simultaneously cover the polymer resin binder at a rate of 15±2 lbs per square yard within 15±5 seconds of the polymer resin binder application.

The rate of application coverage for the polymer resin binder and bauxite high friction aggregate equally applied shall be 1500 square yards to 2000 square yards per hour.

LIMITATIONS

Minimum substrate and ambient temperature is 50°F (10°C) for all applications. Maximum substrate and ambient temperature is 95°F (35°C) for hand mix or semi-automated installations. Do not thin. Solvents will prevent proper cure. Use oven-dried aggregate. Material is a vapor barrier after cure.



CE330 EPOXY BINDER

LOW MODULUS EPOXY POLYMER BINDER

CLEAN UP

Collect with absorbent material. Flush area with water. Dispose of in accordance with local, state and federal disposal regulations. Uncured material can be removed with Natural Clean or other approved solvent. Cured material can only be removed mechanically.

LIMITED WARRANTY

All information provided by Cornerstone Construction Material LLC (CCM) concerning CCM products, including but not limited to, any recommendations and advice relating to the application and use of CCM products, is given in good faith based on CCM's current experience and knowledge of its products when properly stored, handled and applied under normal conditions in accordance with CCM's instructions. In practice, the differences in materials, substrates, storage and handling conditions, actual site conditions and other factors outside of CCM's control are such that CCM assumes no liability for the provision of such information, advice, recommendations or instructions related to its products, nor shall any legal relationship be created by or arise from the provision of such information, advice, recommendations or instructions related to its products. The user of the CCM product(s) must test the product(s) for suitability for the intended application and purpose before proceeding the full application of the product(s). CCM reserves the right to change the properties of its products without notice. All sales of CCM product(s) are subject to its current terms and conditions of sale.

Prior to each use of any CCM product, the user must always read and follow the warnings and instructions on the product's most current Technical Data Sheet, product label and Safety Data Sheet which are available at www.ccmaterial.com. Nothing contained in any CCM materials relieves the user of the obligation to read and follow the warnings and instructions for each CCM product as set forth in the current Technical Data Sheet, product label and Safety Data Sheet prior to product use.

CCM warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Technical Data Sheet when used in accordance with the written instructions. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor.

NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. CCM SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. CCM SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.

MANUFACTURER

Cornerstone Construction Material, LLC
1150 SE Hamblen Rd.
Lee's Summit, MO 64081
816-380-1082
www.ccmaterial.com