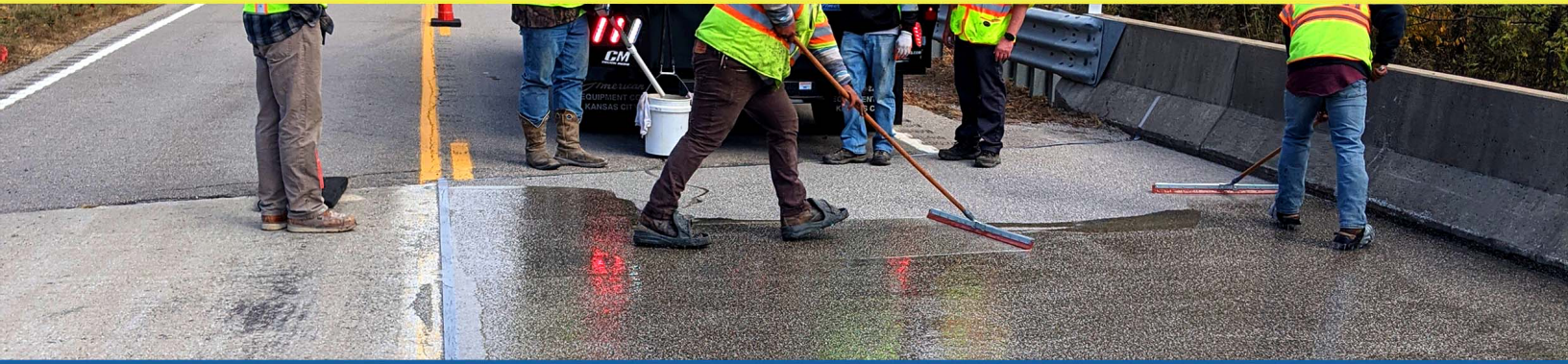




FasTrac CE330 Epoxy Binder

LOW MODULUS EPOXY URETHANE BINDER



Technical Data Sheet

PRODUCT DESCRIPTION

FasTrac CE330 is a two component, 100% solids, epoxy urethane binder for high friction surface treatments (HFST), thin polymer overlays and general pavement and bridge deck repairs. A fast turnaround, low modulus binder system, FasTrac CE330 may be opened to traffic in as little as 2 to 3 hours after placement, used on concrete or asphalt substrates and meets the requirements of ASTM C 881 and AASHTO M235 Type III, Classes B and C.

APPLICATIONS

- High-Friction Surface Treatment
- Bridge Deck Thin Polymer Overlays
- Spall Repairs
- Runways & Taxiways

FEATURES

- Fast Open to Traffic
- Moisture Tolerant
- Low Modulus
- Zero Chloride Penetration

SURFACE PREPARATION

Condition surfaces to between 65°F and 85°F (18.3°C and 29.4°C) for best results. Minimum substrate temperature is 50°F (10°C). Concrete surfaces should be structurally sound and mechanically profiled to a Concrete Surface Profile (CSP) of 3 to 5 in accordance with ICRI Standard 310.2R. All loose, broken, or unsound materials must be removed. Blow out surfaces of dust, debris, and all bond inhibiting contaminants. Surfaces should be dry and free of all standing water prior to product installation. Substrate moisture content should be 5% or lower at time of application for optimal results.

MIXING

Material components should be between 65°F and 85°F (18.3°C and 29.4°C) for the best results. Heating of components may be required to ensure traffic open times are met after installation. All mixing should be done at a 1:1 ratio. Use automated mixing equipment such as FasTrac EP1500 Epoxy Pump System or modified volumetric truck for larger applications. Mixing equipment should be able to automatically monitor mix ratios and provide batch records of each component used. Small applications may be hand mixed using a drill and paddle and suitable sized container. Contact FasTrac Construction Products for further details and technical assistance.

INSTALLATION

Discharge or pour FasTrac CE330 into the repair area and squeegee, roll or broom out uniformly across the entire repair area. Ensure all surfaces to be repaired are fully wetted with mixed material. For high friction surface treatments, immediately broadcast high friction aggregate (bauxite or similar) uniformly across all wetted surfaces until no bare spots appear. Follow project specifications where applicable for broadcast rates. Sweep or vacuum excess broadcast aggregate from surfaces once material has achieved proper or specified strength.

CURING

FasTrac CE330 is a self-curing material. Colder curing temperatures (below 50°F / 10°C) will decrease strength development and increase time to traffic. Do not allow exposure to rain or freezing temperatures until required strengths are achieved. Product is a vapor barrier once cured.

CLEAN UP

All surfaces, tools and equipment may be cleaned with FasTrac Natural Clean or solvent based cleaner prior to material setting.



 www.fastracproducts.com

 816-380-4747

 sales@fastracproducts.com

 Lee's Summit, MO 64081



FasTrac CE330 Epoxy Binder

LOW MODULUS EPOXY URETHANE BINDER

PACKAGING

600 ml Cartridge
 2 gal (7.6 L) unit
 10 gal (38 L) unit
 500 gal (1,893 L) unit

SHELF LIFE AND STORAGE

Shelf life: 2 years from date of manufacture when stored in dry weatherproof conditions.
 Storage Temperatures: 40° F (4.4°C) to 95° F (35° C).

TYPICAL PROPERTIES at 75° F (23.8° C)	
TEST METHOD	RESULTS
Mix Ratio	1:1 by volume
ASTM D1084/D2196/D2556 Viscosity	≤ 3,000 cps
ASTM C881 Gel Time	≥ 10 minutes
ASTM D1640 Tack Free Time	≤ 3 hours
ASTM D2240 Shore D Hardness	65-80
ASTM D638 Tensile Properties	Tensile Strength: ≥ 2,500 psi (17.2 MPa) Tensile Elongation: ≥ 45%
ASTM C882 Shear Bond Strength	2-Day Cure: ≥ 2,000 psi (13.8 MPa) 14-Day Cure: ≥ 2,500 psi (17.2 MPa)
ASTM D4541/C1583/C503R Tensile Bond Strength	24 hr. cure (Dry Substrate): ≥ 200 psi (1.4 MPa) 24 hr. cure (SSD Substrate): ≥ 200 psi (1.4 MPa)
ASTM C579 Compressive Strength	3-hour cure: ≥ 1,500 psi (10.3 MPa) 24-hour cure: ≥ 5,000 psi (34.5 MPa) 7-day cure: ≥ 5,000 psi (34.5 MPa)
ASTM D695 Compressive Properties	Compressive Modulus: ≤ 90,000 psi (620 MPa)
ASTM D2566 Shrinkage on Cure	≤ 0.2%
ASTM C884 Thermal Compatibility	PASS - No Delamination or Cracking
ASTM D570 Water Absorption	≤ 0.2%
AASHTO T277 Chloride Ion Permeability	0.0 coulomb

	CURE TIME										
	40°F (4.4°C)	45°F (7.2°C)	50°F (10°C)	55°F (12.8°C)	60°F (15.6°C)	65°F (18.3°C)	70°F (21.1°C)	75°F (23.9°C)	80°F (26.7°C)	85°F (29.4°C)	90°F (32°C)
CE330 STD	16 HRS	12 HRS	10 HRS	8 HRS	6 HRS	5 HRS	4 HRS	3 HRS	2.5 HRS	2 HRS	1.5 HRS
CE330 ACCEL	12 HRS	10 HRS	8 HRS	6 HRS	4 HRS						
CE330 LOW TEMP	8 HRS	6 HRS	5 HRS	4 HRS	3 HRS						

HEALTH AND SAFETY INFORMATION

Product contains epoxy resin and amines. Wear proper PPE when using this product, including gloves, eye and skin protection and NIOSH / MSHA approved respirator or dust mask. Read SDS thoroughly before use. Prop 65: This product contains chemicals known by the state of California to cause cancer.

LIMITED WARRANTY

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 with 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 the 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. The 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.

Every reasonable effort is made to apply exacting standards both in the manufacture of "FasTrac CE330" product and in the information which we issue concerning these products and their use. We warrant our products to be good quality and will replace or, at our election, refund the purchase price of any products proved defective. Satisfactory results depend not only on quality products, but also upon many factors beyond our control. Therefore, except for such replacement or refund, Cornerstone Construction Material LLC (CCM) makes no warranty or guarantee, express or implied, including warranties of fitness for a particular purpose or merchantability, respecting its products, and Cornerstone Construction Material LLC (CCM) shall have no other liability with respect thereto. Any claim regarding a product defect must be received in writing within one year of the date of shipment. No claim will be considered without such written notice or after the specified time interval. The User shall determine the suitability of the products for the intended use and assume all risks and liability in connection therewith. Any authorized change in the printed recommendations concerning the use of our products must bear the signature of the Cornerstone Construction Material LLC (CCM) technical manager.