FasTrac CE700 HPC Overlay

HYBRID POLYMER CONCRETE

Technical Data Sheet

PRODUCT DESCRIPTION

FasTrac CE700 HPC Overlay is a high-performance polymer concrete system for bridge deck overlays, multi–layer thin polymer overlays, pavement resurfacing, high friction surface treatments, spall repairs, grade corrections. A highly engineered system, FasTrac CE700 HPC Overlay can be opened to traffic 2 -3 hours after placement, has no VOC's, can be used in applications from ¾ inch (18.7mm) in depth to 12 inches (300mm) and requires no primer. FasTrac CE700 HPC Overlay meets the requirements of ASTM C 881 and AASHTO M235 Type III, Classes B and C.

APPLICATIONS

- Bride Deck Overlays
- Grade Corrections
- Spall Repair
- Patching
- Road Resurfacing

FEATURES

- Rapid Return to Traffic
- Zero Shrinkage
- Exceptional Tensile Elongation
- Zero Chloride Penetration
- Self-Priming

SURFACE PREPARATION

Condition surfaces to between 60°F and 85°F (15.6°C and 29.4°C) for best results. Minimum substrate temperature is 40°F (4.4°C). Concrete surfaces should be structurally sound and mechanically profiled to a Concrete Surface Profile (CSP) of 6 or greater in accordance with ICRI Standard 310.2R Selecting and Specifying Concrete Surface Preparation for Coatings, Sealers and Polymer Overlays. Shotblasting or similar means is recommended. All loose, broken, or unsound concrete must be removed. Blow out concrete surfaces of all dust, debris, and bond inhibiting contaminants. Concrete surfaces should be thoroughly dry and free of all standing water prior to product installation.

MIXING

FasTrac CE700 HPC Overlay is best mixed using automated mixing equipment such as volumetric mixers for larger scale installations. Volumetric mixers are available through FasTrac Construction Products, contact for more information on availability and use. For smaller scale work, mix all of Component A and all of Component B in appropriate mixer for 2 minutes using auger mixer or drill and paddle. Add Component C and mix for an additional 2 minutes until all Component C is uniformly wetted. Use immediately after mixing.

INSTALLATION

Discharge or pour FasTrac CE700 HPC Overlay into overlay and strike off / level using vibratory screed slipform paver or hand tools. Screed and level immediately. Apply full width of lane and continue overlaying in this manner. For friction surface treatment, broadcast aggregate uniformly into top surfaces before material stiffens.

CURING

FasTrac CE700 HPC Overlay is a self-curing material. Do not wet cure. Protect from rain and freezing temperatures until minimum strengths are developed.

CLEAN UP

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

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PACKAGING AND YIELD

Available in 1 cubic yard (0.76 cubic meter) bulk units consisting of:

- 25 gallons (94.6 liters) Component A
- 25 gallons (94.6 liters) Component B
- 3000 lbs. (1363 kg.) Component C

Also available in 0.5, 1.0 and 5.0 cubic foot (0.014, 0.028 and 0.14 cubic meter) units.

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	3-Component Hybrid Polymer Concrete
ASTM D1084/D2196/D2556 Viscosity (binder only)	≤ 2,000 cP
ASTM C881 Gel Time	≥ 10 minutes
ASTM D1640 Tack Free Time	≤ 3 hours
ASTM D2240 Shore D Hardness	65 - 80
ASTM D570 Water Absorption (binder only)	< 0.2%
ASTM D638 Tensile Properties	
Tensile Strength:	≥ 1,000 psi (6.9 MPa)
Tensile Elongation:	≥ 50%
ASTM C579 Compressive Strength	
12-hour cure:	≥ 2,000 psi (10.3 MPa)
24-hour cure:	≥ 3,000 psi (34.5 MPa)
7-day cure:	≥ 3,000 psi (34.5 MPa)
ASTM C1583/ACI503r Tensile Bond Strength	≥ 250 psi or Substrate Failure
ASTM D2566 Shrinkage on Cure	0.01%
ASTM C884 Thermal Compatibility	Pass
AASHTO T277 Chloride Ion Permeability	0.0 coulombs

MINIMUM CURE TIME				
TEMPERATURE				
60°F (15.5°C)	65°F (18.3°C)	70°F (23.8°C)	75°F (23.8°C)	80°F (26.6°C)
5 Hours	4 Hours	3.5 Hours	3 Hours	2 Hours

HEALTH AND SAFETY INFORMATION

This product contains silica sand and respirable silica. Respirable silica is a suspected human carcinogen by NTP and IARC. Use proper PPE when working with this material, including eye protection, gloves and NIOSH / MSHA approved dust masks or respiratory protection as required to prevent inhalation and accidental ingestion. Read SDS thoroughly before use. Proposition 65 - This product contains material listed by the state of California as known to cause birth defects or other reproductive harm.

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 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 REPSONSIBLE 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 CE700 HPC Overlay" 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.

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