EDITION: 00225INF

Technical Data Sheet

FasTrac CE700 HPC

HYBRID POLYMER CONCRETE

HYCHEM
Infrastructure

Product Description

FasTrac CE700 HPC 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 can be opened to traffic 2-3 hours after placement, has no VOC's, can be used in applications from ½ inch in depth to 12 inches in and requires no primer.

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 15.6°C and 29.4°C for best results. Minimum substrate temperature is 10°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 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 into repair area 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 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.

Packaging and Yield

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

- 94.6 litres Component A
- 94.6 litres Component B
- 1363 kg. Component C

Also available in 0.014m³, 0.028m³ and 0.14m³ units.

HYCHEM

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Shelf life and Storage

Shelf life: 2 years from date of manufacture when stored in dry weatherproof conditions.

Storage Temperatures: 4.4°C to 35°C.

TYPICAL PROPERTIES at (23.8°C)	
TEST METHOD	**RESULTS**
ASTM C1583 / ACI 503R Bond Strength	1.7 MPa
ASTM C579 Compressive Strength	13.8MPa 12 hours 20.7 MPa 24 hours
AMTS-04-06-01 Compressive Strength	29.2 MPa (7 days curing)
ASTM D638 Tensile Strength	17.2 MPa
ASTM D638 Tensile Elongation	>50%
ASTM D2240 Durometer	60 – 80
ASTM C531` Shrinkage	0.01%
AASHTO T277 Chloride Ion Permeability	0 coulombs
ASTM D 570 Absorption (binder only)	0.2%

MINIMUM CURE TIME				
TEMPERATURE				
15.5°C	**18.3°C**	**23.8°C**	**23.8°C**	**26.6°C**
5 Hours	4 Hours	3.5 Hours	3 Hours	2 Hours

Warranties and Disclaimers

Hychem warrants that this product shall conform to the technical specifications published in the product literature. The quality and fitness of the product is dependent upon the proper use and application of the product by the applicator. Hychem has no role in the application of the finished polymer other than to manufacture and supply its components. It is vital that the person applying this product understands the product and is fully trained and certified in the use of spray equipment and application of sol-gel materials. There are no warranties that extend beyond the description on the face of this instrument, except when provided in writing, directly by Hychem and executed under seal by a company officer.

Field Support

Field support where provided, does not constitute supervisory responsibility. Suggestions made by HYCHEM either verbally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they and not HYCHEM are responsible for carrying out procedures appropriate to a specific application.

Customer Responsibility

The technical information and application advice given in this publication is based on the best information available at the time of print.
As the information herein is of a general nature, no assumption can be made as to the product suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by Commonwealth or State Legislation. The owner, his representative or the contractor is responsible for checking the suitability of products for their intended use.

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