FasTrac CE700 HPC Patching

HYBRID POLYMER CONCRETE PATCHING KIT

Technical Data Sheet

PRODUCT DESCRIPTION

FasTrac CE700 HPC Patching is a three component, high performance, hybrid polymer patching system for concrete pavements, bridge decks and similar repairs. FasTrac CE700 HPC Patching is a highly durable, impermeable repair that allows return to traffic in 2 to 3 hours. FasTrac CE700 HPC Patching provides excellent abrasion resistance, high tensile strengths, requires no primer and contains no VOC's. Ranked #1 in a recent National Road Research Alliance (NRRA) study of patching materials, FasTrac CE700 HPC Patching is the ideal long-term solution for road and bridge deck patching. FasTrac HPC Patching meets the requirements of ASTM C 881 and AASHTO M235 Type III, Classes B and C.

APPLICATIONS

- Parking Deck Repairs
- Grade Corrections
- Pavement Spall Repair
- Bridge Deck Patching

FEATURES

- Return to Traffic in 2 to 3 Hours
- Strong Like Concrete, Flexible Like Asphalt
- No VOCs
- No Primer Required

SURFACE PREPARATION

Condition surfaces to a minimum 50°F (10°C) and above 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. Exposed rebar should be blasted clean to remove all rust, scale and oxidation.

MIXING

Mix only an amount of material that can be used within its pot life. Proportion each liquid component (Components A and B) at a 1 : 1 ratio into a suitable size mixing container. Mix liquids thoroughly for 3 minutes with a Jiffy mixer on low speed (400-600rpm). Do not whip air into liquids. Scrape the sides and bottom of the container. Slowly add Component C (aggregate) while mixing to achieve desired consistency. Mix until all aggregate is wetted out and no dry pockets remain. Use immediately after mixing.

INSTALLATION

Place patch full depth from one side of repair and fill along patch geometry. Level and screed as necessary with steel trowel. FasTrac Epoxy Cleaner / Finishing Aid sprayed on tools will aid in reducing tool drag during leveling and finishing. When used as an overlay, place FASTRAC CE700 HPC Patching with a vibratory strike off screed or slipform paver as appropriate for the application. When using optional friction aggregate, broadcast aggregate and lightly float or roll it into freshly placed FASTRAC CE700 HPC Patching.

CURING

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

CLEAN UP

Clean tools and equipment immediately after final use with FasTrac Epoxy Cleaner / Finishing Aid or FasTrac Natural Clean.

www.fastracproducts.com
816-380-4747
sales@fastracproducts.com
Lee's Summit, MO 64081

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PACKAGING AND YIELD

- **0.5 cu. ft.**: 0.5-gallon Part A – liquid / 0.5-gallon Part B-liquid / 50 lb. Part C – Aggregate
- **1.0 cu. ft.**: 1.0-gallon Part A - liquid / 1.0-gallon Part B - liquid / 2 - 50 lb. bags Part C - Aggregate
- **5.0 cu. ft.**: 5.0-gallon Part A - liquid (pail) / 5.0-gallon Part B - liquid (pail) / 10 - 50 lb. bags Part C – Aggregate
- **CE700 HPC Patching / Overlay Volumetric Mixing (per ~1.0 cu. yd.)**:
    - 50 gallons liquid (25 gallons Part A, 25 gallons Part B) 3000 lb. Part C-aggregate

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**
ASTM C1583 / ACI 503R Bond Strength	≥ 250 psi (1.7 MPa) (Substrate Failure)
ASTM D1640 Tack Free Time	≤ 3 hours
ASTM D638 Tensile Elongation	40-60%
ASTM D638 Tensile Strength	2,500 psi (17.2 MPa)
ASTM C884 Thermal Compatibility	Pass
ASTM C531` Shrinkage	0.01%
AASHTO T277 Chloride Ion Permeability	0.0 coulombs
ASTM D 570 Absorption	0.2% (polymer only)
ASTM D2240 Shore D Hardness	60-80
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 C579 Compressive Modulus	≤ 500,00 psi (3447 MPa)
ASTM D695 Compressive Modulus	≤ 90,000 psi (620 MPa)

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)**	**85°F (29.4°C)**	**90°F (32°C)**	**95° (35°C)**
Cure Time (Standard)	4 Hours	3 Hours	2.5 Hours	2 Hours	1.5 Hours	1 Hours	1 Hours	1 Hours
Cure Time (Accelerated)	3 Hours	2.5 Hours	2 Hours	1.5 Hours	1 Hours	1 Hours	1 Hours	1 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.

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