FasTrac 303 Cement

RAPID-SETTING CEMENT SYSTEM FOR LATEX-MODIFIED CONCRETE

Roosevelt Bridge Rehabilitation using FasTrac 303 Cement
Honolulu, HI

Technical Data Sheet

PRODUCT DESCRIPTION

FasTrac 303 Cement is a shrinkage-compensated, rapid-setting cement system used for fast turnaround latex modified concrete mixes. Designed to be used with local aggregates, FasTrac 300 Cement is used in rapid setting concrete mixes with 3 hour return to service and excellent long term durability properties.

APPLICATIONS

- Bride Deck Repairs
- Airport Runways
- Parking Decks
- Dowel Bar Retrofit

FEATURES

- 3 Hour Traffic Ready
- Shrinkage Compensated
- Excellent Freeze Thaw Resistance
- Low Chloride Permeability

MIX DESIGN

A final mix design based upon local aggregates should be developed and submitted prior to commencing work. Trial batches should be considered to confirm final mix design against specifications. Contact FasTrac Construction Products for more information regarding mix designs.

SURFACE PREPARATION

Condition surfaces to between 40°F and 90°F (4.4°C and 32°C). Concrete should be structurally sound and mechanically profiled to a Concrete Surface Profile (CSP) of 7 or greater in accordance with ICRI Standard 310.2R Selecting and Specifying Concrete Surface Preparation for Coatings, Sealers and Polymer Overlays. Sawcut perimeter edges to a minimum 1-inch depth. All loose, broken, unsound concrete and standing water must be removed. Blow out concrete surfaces of all dust, debris, and bond inhibiting contaminants with oil free compressed air. Concrete shall be saturated surface dry prior to placement.

MIXING

Mix via volumetric mixer for large volume repairs or concrete mixer for small repairs following approved mix design. For small mixes, add water followed by dry ingredients. Ensure mix design water: cement ratio is not exceeded during mixing. Confirm slump as required after mixing.

APPLICATION

Discharge or pour concrete into the area, strike off, screed and finish immediately. Place into area full depth and work into substrate. Vibrate as necessary. Do not add water to the surface to aid finishing.

CURING

Apply a curing compound meeting the requirements of ASTM C 309 immediately after final finishing.

CLEAN UP

All surfaces, tools and equipment may be cleaned with water immediately after use and prior to hardening of concrete.

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

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PACKAGING AND YIELD

50 lb. (22.7 kg) bags; 2,000 lb (907 kg.) bulk bags. Yield dependent upon local aggregate used, slump and mix design. Typically, a 2,000 lb (907 kg.) bulk bag will provide enough cement for a 3 cubic yard (2.3 cubic meters) mix.

SHELF LIFE AND STORAGE

Shelf life: 1 year 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**
Water : Cement Ratio		0.42 to 0.47
ASTM C191 Set Time		20-25 minutes initial / 35-40 minutes final
ASTM C39 Compressive Strength 3" x 6" Cylinders		
	3 Hours	3,300 psi (22.7 MPa)
	1 Day	4,000 psi (27.6 MPa)
	7 Days	6,000 psi (41.4 MPa)
	28 Days	6,500 psi (44.8 MPa)
ASTM C882 Slant Shear Bond Strength		
	1 Day	1,900 psi (13.1 MPa)
ASTM C78 Flexural Strength		
	3 Hours	750 psi (5.1 MPa)
	1 Day	850 psi (5.9 MPa)
	7 Days	1,150 psi (7.9 MPa)
	28 Days	1,300 psi (8.9 MPa)

HEALTH AND SAFETY INFORMATION

Read SDS thoroughly before use. Use of this product can expose user to respirable silica, which is known by the state of California, IARC and NTP to cause cancer. Do not breathe dust and avoid all contact with skin and eyes. Wear proper PPE including long sleeves, eye protection, gloves and NIOSH / MSA approved respiratory protection. In case of contact with skin, immediately wash affected area. In case of contact with eyes, flush eyes for 15 minutes with water and seek medical attention.

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Western Material Design · 1150 SE Hamblen Road, Lee's Summit, MO 64081