



# 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

- Bridge 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.



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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.

## 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](http://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 303 Cement" 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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CEMENTS | CONCRETES | EPOXIES | GROUTS | MORTARS | MIXING SYSTEMS | HFST



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