



FasTrac 246 Concrete

FAST-TURNAROUND, HIGH-PERFORMANCE CONCRETE



Technical Data Sheet

PRODUCT DESCRIPTION

FasTrac 246 Concrete is a rapid-setting, high performance concrete for small and large volume repairs. High early strength development allows fast return to service for horizontal and formed vertical repairs in as little as 2 to 3 hours at normal temperatures.

APPLICATIONS

- Airport Runways
- Bridge Deck Repairs
- Parking Structures
- Pavement Rehabilitation
- Foundation Rebuilds

FEATURES

- Rapid Strength Development (3 Hour Turnaround)
- Very Low Drying Shrinkage
- Excellent Freeze Thaw Resistance
- High Bond Strength
- Easy to Use, Single Component

SURFACE PREPARATION

The concrete substrate must be structurally sound and have attained design strength. Roughen concrete surfaces to an ICRI 310.2R Concrete Surface Profile (CSP) of 6 to 10 or as otherwise specified. Sawcut perimeter edges to a minimum 1-inch (25 mm) depth. Remove all loose or unsound concrete, dust, debris, and other bond inhibiting contaminants from surfaces. Presoak concrete surfaces for 2 to 3 hours prior to material installation. Surfaces should be saturated surface dry (SSD) at time of placement.

For exposed rebar applications, undercut as required and remove all oxidation and rust from exposed rebar.

FORMWORK

Where required, formwork shall be built watertight and strong enough to withstand forces developed during placement. Formwork shall be coated with a suitable release agent such as form oil or paste wax for easy removal.

MIXING

Mix FasTrac 246 Concrete with a mortar mixer (rotating paddle mixer). Add recommended water content of 2.2 to 2.38 quarts (2.08 to 2.25 liters) water per 60 lb. (27.2 kg) to mortar mixer followed by repair material. Mix for approximately 3 minutes. Use immediately after mixing.

For cold temperature applications, FasTrac Accelerator may be included in the mix to promote cold weather strength development. Contact FasTrac Construction Products for further details.

INSTALLATION

For best results, condition material and surfaces to between 65°F and 85°F (18.3°C and 29.4°C).

For horizontal repairs, place material from one side of the repair and firmly work into substrate. Place material to full depth and work across repair area. Rodding helps consolidate material on deeper pours. Finish as necessary. For formed vertical installations, pour material through birds-mouth or entry point. Do not allow material to free fall excessively on long vertical repairs.

CURING

FasTrac 246 Concrete should be continuously wet cured for a minimum of 2 hours after placement using wet burlap or soaker hoses after final set. A curing compound meeting the requirements of ASTM C 309 may be used in lieu of wet curing.



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CLEAN UP

All surfaces, tools and equipment may be cleaned with water prior to material setting.

COVERAGE AND YIELD

60 lb. (27.2 kg) bag yields approximately 0.45 cubic feet (0.013 cubic meters).

Also available in 1,800 lb. (817 kg.), 2,000 lb. (908 kg.) and 3,000 lb. (1362 kg.) bulk bags.

SHELF LIFE AND STORAGE

1 year from date of manufacture in original unopened containers when stored under dry, weather-proof conditions.

Store product at temperatures between 40°F and 90°F (4.4°C and 32°C).

TYPICAL PROPERTIES at 75° F (23.8° C)		
TEST METHOD	RESULTS	
ASTM C39 Compressive Strength (3" x 6" Cylinders)		
	2 Hours	2,000 psi (13.8 MPa)
	3 Hours	3,500 psi (24.1 MPa)
	1 Day	5,000 psi (34.5 MPa)
	7 Days	7,500 psi (51.7 MPa)
	28 Days	8,500 psi (58.6 MPa)
ASTM C882 Slant Shear Bond		
	1 Day	2,500 psi (17.2 MPa)
	7 Days	3,000 psi (20.7 MPa)
ASTM C157 Length Change		
	28 Days Wet	+0.02%
	28 Days Dry	-0.04%
ASTM C266 Set Time		
	Initial	20-30 Minutes
	Final	30-40 Minutes
ASTM C1202 Rapid Chloride Permeability		
		300 coulombs
ASTM C666A Freeze Thaw Resistance		
	300 Cycles	97.2% RDM

HEALTH AND SAFETY INFORMATION

This product contains Portland cement, 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.

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 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 246 Concrete" 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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