



FasTrac 246 CONCRETE

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 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 2.08 to 2.25 litres water per 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 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.

Clean up

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

Coverage and Yield

27.2 kg bag yields approximately 0.013 cubic metres. Also available in 817 kg, 908 kg, and 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 4.4°C and 32°C.



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TYPICAL PROPERTIES AT 23.8°C

TEST METHOD	RESULTS
ATSM C39 Compressive Strength (3" x 6" Cylinders)	
TIME:	
2 HOURS	13.8 MPa
3 HOURS	24.1 MPa
1 DAY	34.5 MPa
7 DAYS	51.7 MPa
28 DAYS	58.6 MPa
ASTM C882 Slant Shear Bond	
1 DAY	172 MPa
7 DAYS	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



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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.