



# FasTrac XT Grout

HIGH-TEMPERATURE EXPOSURE CEMENT-BASED GROUT



## Technical Data Sheet

### PRODUCT DESCRIPTION

FasTrac XT Grout is a very high strength, high-temperature resistant, flowable consistency, cement-based grout for high-temperature exposure environments. FasTrac XT Grout may be used in both constant and cyclical temperature exposure applications, has excellent crack resistance and low permeability for long term durability in aggressive service conditions.

### APPLICATIONS

- Coke Drums
- Turbines
- Furnaces
- Generators
- Boilers

### FEATURES

- Resistant Up to 2500°F
- Low Drying Shrinkage
- Non-Metallic
- Flowable to Drypack Pack Consistency
- Can be Extended for Deep Placement

### SURFACE PREPARATION

All concrete surfaces shall be dimensionally sound, clean, and roughened mechanically to ensure the best bond between grout and concrete. Roughen concrete surfaces to a minimum CSP 6 to CSP 10 in accordance with International Concrete Repair Institute 310.2R Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings, Polymer Concretes, and Concrete Repair guidelines. Remove all dust, debris, and other contaminants with oil-free compressed air. Once clean, presoak concrete surfaces with potable water for a minimum of 8 and up to 24 hours prior to grout placement. Concrete surfaces should be saturated surface dry (SSD) – damp but without any standing water right before grout placement. Best placement results are obtained when concrete substrate surfaces are between 50°F and 80°F (10°C and 26.7°C).

### FORMWORK

All formwork must be rigidly secured and watertight. Caulk and seal all internal formwork joints. Formwork should extend a minimum of 1 inch above the top of baseplate or structural member being grouted. A form release agent (form oil, wax) should be applied to all grout contact surfaces to ensure easy removal of formwork.

### MIXING

Use approximately 2.5 - 3.0 quarts of water (2.3 - 2.8 liters) per 50 lb. (22.7 kg.) of grout. For multiple bag mixes, use only a mortar mixer (not a cement mixer) for mixing. Start by adding the specified amount of water followed by the grout. Mix for 3 to 4 minutes. Adjust consistency as necessary but do not exceed maximum water content. For single bag mixes a five-gallon pail and drill and paddle may be used. Add water to bucket followed by grout and start mixing while adding grout. Use immediately after mixing.

### INSTALLATION

Pour grout from one side to the other. Do not pour or pump grout from both sides simultaneously. Use a headbox to facilitate grout flow in tighter clearance or large footprint applications. For placements thicker than 3 inches (75mm), add clean, dry coarse aggregate at the rate of 25% to 50% by weight during mixing process. Aggregate used must be a high temperature resistant type such as granite or basalt.



 [www.fastracproducts.com](http://www.fastracproducts.com)

 816-380-4747

 [sales@fastracproducts.com](mailto:sales@fastracproducts.com)

 Lee's Summit, MO 64081



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## CURING

Wet cure grout for 48 hours continuously using wet burlap and plastic sheeting, burlene or similar materials that will maintain moisture and not dry out, followed by 72 hours of air drying before exposing grout to maximum temperatures.

## PACKAGING AND YIELD

50 lb. bag (22.7kg.) bag yields 0.42 cubic feet (.012 cubic meters) at a flowable consistency.

## SHELF LIFE AND STORAGE

Shelf Life: 1 year from date of manufacture Storage Temperature: 40°F to 90°F (4.4°C to 32°C).

### TYPICAL PROPERTIES at 75°F (23.8°C)

TEST METHOD	RESULTS		
ASTM C109 Compressive Strength	@ 73°F	@ 1500°F	
	1 Day:	13,000 psi	8,000 psi
	7 Days:	14,000 psi	8,000 psi
ASTM C293 Flexural Strength	@ 73°F	@ 1500°F	
	1 Day:	1,300 psi	950 psi
	7 Days:	1,400 psi	950 psi
ASTM C266 Set Time	Initial:	55 minutes	
	Final:	80 minutes	
	ASTM C469 Static Modulus of Elasticity	28 Days:	5.6 x 10 <sup>6</sup> psi

## HEALTH AND SAFETY INFORMATION

This product contains Portland cement, silica sand and respirable silica. Respirable silica is a suspected human carcinogen as per NTP and IARC. Wear proper PPE including eye and skin protection and NIOSH approved dust mask when exposure levels exceed recommended limits. Read SDS Thoroughly before using this product. Proposition 65 - this product contains substances deemed by the state of California to cause birth defects or reproductive harm.

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