

## FASTRAC HP GROUT

**Non-Shrink, Non –Ferrous, Mineral-Aggregate-Based Precision Grout**

### DESCRIPTION

HP Grout is a hydraulic-cement based, precision, non-shrink, load-bearing grout having an extended working time up to 30 minutes under fluid condition. HP Grout is designed to transfer load effectively and safely, ensuring long service time of the grouted item. It is a non-corrosive, non-metallic, mineral-based precision grout, developed to have a high initial and ultimate flexural and compressive strength. It can be mixed quickly, as needed, on the jobsite. HP Grout offers exceptional workability and is easily placed by pouring or pumping. The product is designed to give non-shrink performance under various conditions for both interior and exterior applications. Meets or exceeds all requirements of ASTM C1107.

### WHERE TO USE

- Machinery and equipment base plates, windmill turbines, generators, rolling mills, compressors
- Soleplates, bridge seats, precast columns
- Beams, steel column pads, precast beams
- Anchoring guardrails, sign posts, anchor bolts, guide wires, dowels

### YIELD

Approx. 0.44 ft. <sup>3</sup>/bag at high flow

### PACKAGING

50 lb bag

### SHELF LIFE

12 mos. properly stored

### APPLICATION TEMPERATURE

45°F – 90°F

### FEATURES/BENEFITS

- May be mixed to plastic, flowable and fluid consistencies for easy application.
- Very high compressive and flexural strengths
- High modulus to ensure proper load transfer
- Non-shrink ensures proper load transfer
- Quickly and easily placed by pouring or pumping
- Resists heat up to 600°F (315°C)
- Resists many chemicals, including oils, petroleum products, solvents and mild caustic alkalis
- May be extended up to 50%
- No added chloride or gypsum
- Outstanding flow characteristics; maintains flow for up to 30 minutes at fluid consistency.

### STORAGE

Store in unopened container in a dry, shaded and cool area.

### HOW TO APPLY

#### **Surface Preparation** (See ICRI guidelines)

All grout contact surfaces must be free of oil, grease, scale, penetrating sealers, or all other types of contaminants that will interfere with the bond. Mechanically roughen or high-pressure water-jet the existing concrete substrate. Surface must be rough and profiled, but generally level. Grouting area must be saturated with water 12-24 hours prior to grouting. Remove all excess water before placing grout. Minimum application thickness is 1/2-in and extension with pea gravel is recommended for applications greater than 4-in. Finish the completed repair, as required without overworking the surface.

#### **Forming**

Forming method must provide for rapid, continuous grout placement. For pouring, allow a minimum clearance of 3" for entry and 6" minimum grout "head". Forming must also provide venting to avoid entrapment of air. Provide 1/2" minimum form clearance on all sides and 1" clearance for head. Ensure form is well sealed and an appropriate form release agent has been applied for that type of form.

#### **Mixing**

Small quantities of HP Grout may be hand mixed in a concrete mixing pan until lump free. For large quantities and continuous pours, mix using a mortar mixer with rubber tipped blades or appropriate grout pump for a minimum of 3 minutes or until lump free and uniform. Use the minimum water required to produce desired placement consistency. Use 3.1 quarts (2.9 L) of water per bag for plastic consistency; and 4.1 quarts (3.9L) for fluid. Mix in 2 steps : add 2/3 of water requirement then add grout. After partial mixing, add remainder of water for desired consistency. Thoroughly mix total quantity for 2-3 minutes. Do not mix more than can be placed in 15 minutes at 75°F (23°C). Do not re-temper.

## FASTRAC HP GROUT

**Set time** – (ASTM C 266)

	<b>Fluid</b>
Initial set	40 – 60 minutes
Final set	60 - 80 minutes

**Compressive Strength** - (ASTM C109) psi

	<b>Fluid</b>
3 Hours	4,000
8 Hours	7,500
1 Day	8,400
7 Days	10,700
28 Days	12,000

<b>Typical Properties</b>			
	<b>35°</b>	<b>72°</b>	<b>100°</b>
<b>Compressive Strength</b> (ASTM C109) psi	Fluid Consistency		
8 Hour		7,500	8,000
1 Day	7,500	8,400	9,000
7 Days	9,000	10,700	11,000
28 Days	11,000	12,000	12,000

*The data shown above reflects typical results based on laboratory testing under controlled conditions. Reasonable variations from the data shown above may result.*

**Set Time** – (ASTM C 266)

	<b>Flowable</b>	<b>Plastic</b>
Initial set	20 – 40 minutes	10 – 25 minutes
Final set	40 – 60 minutes	25 – 40 minutes

**Compressive Strength** - (ASTM C109) psi

	<b>Flowable</b>	<b>Plastic</b>
1 Day	9,500	10,000
7 Days	12,000	12,500
28 Days	13,000	13,500

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### **Curing**

Cure immediately after finishing. Use a curing compound that complies with ASTM C 309. In extreme heat, keep the patches covered and damp.

### **Clean Up**

Clean tools and equipment with clean water immediately after use. Cured material must be removed mechanically.

### **Health and Safety**

Make certain the most current versions of product data sheet and SDS are being used

### **Risks**

Product contains portland cement and sand (crystalline silica); it can cause skin and eye irritation. Ingestion or inhalation of dust may cause tract irritation. This contains free respirable quartz, which has been listed as a suspected human carcinogen by NTP and IARC. Repeated or prolonged overexposure to free respirable quartz may cause silicosis or other serious and delayed lung injury.

### **Precautions**

KEEP OUT OF THE REACH OF CHILDREN. Prevent contact with skin and eyes. Prevent inhalation of dust. DO NOT take internally. Use only with adequate ventilation. Use impervious gloves, eye protection and if the TLV is exceeded or is used in a poorly ventilated area, use NIOSH/MSHA approved respiratory protection in accordance with applicable federal, state and local regulations.

### **First Aid**

In case of eye contact, flush thoroughly with water for at least 15 minutes, and seek medical attention. In case of skin contact, wash affected areas with soap and water. If the irritation persists seek medical attention. Remove and wash contaminated clothing. If inhalation causes physical discomfort, remove to fresh air. If the discomfort persists, breathing difficulty occurs, or if swallowed seek medical attention. Refer to Safety Data Sheet (SDS) for further information.

### **Proposition 65**

This product contains material listed by California as known to cause cancer, birth defects, or other reproductive harm.

### **VOC Content**

0 lbs/gal or 0 g/L

### **Limited Warranty Notice**

Very reasonable effort is made to apply exacting standards both in the manufacture of "FasTrac HP Grout" 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, Western Material and Design, LLC makes no warranty or guarantee, express or implied, including warranties of fitness for a particular purpose or merchantability, respecting its products, and Western Material and Design, LLC shall have no other liability with respect thereto. Any claim regarding product defect must be received in writing within one year from the date of shipment. No claim will be considered without such written notice or after the specified time interval. 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 Western Material and Design, LLC technical manager.