



FasTrac HP Grout

HIGH-STRENGTH NON-SHRINK GROUT



Technical Data Sheet

PRODUCT DESCRIPTION

FasTrac HP Grout is a high strength, fluid consistency, non-shrink, cement-based grout for static and light dynamic equipment and machinery applications. FasTrac HP Grout can be placed at various consistencies, from dry-pack to fluid and provides excellent 8 and 24 hour strengths. FasTrac HP Grout meets the performance requirements of ASTM C 1107 and CRD C 621 specifications for non-shrink grout and may be placed up to 4 inches thick without the use of aggregate extension.

APPLICATIONS

- Pumps
- Turbines
- Tanks and Vessels
- Generators
- High Load Applications
- Anchors and Dowels

FEATURES

- Meets ASTM C 1107
- High early and Ultimate Strengths
- Nonmetallic
- Fluid to dry pack consistencies
- Pumpable
- Can be Extended for Deep Placements

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

Water content may be varied depending upon consistency required. For fluid consistency, use approximately 1 to 1.156 gallons of water (3.78 liters to 4.36 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.



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INSTALLATION

Pour or pump 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 4 inches, add clean dry coarse aggregate at the rate of 25% to 50% by weight during mixing process.

CURING

Wet cure grout for three days continuously using wet burlap and plastic sheeting, burlene or similar materials that will maintain moisture and not dry out. A curing compound meeting the requirements of ASTM C 309 / 1315 may be used in lieu of wet curing.

PACKAGING AND YIELD

50 lb. bag (22.7kg.) bag yields 0.44 cubic feet (0.012 cubic meters) at a fluid consistency. Also available in 3000 lb. (1363 kg.) bulk sacks. Yield will be lower at reduced water contents.

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). Best results obtained when material is pre-conditioned to 55° F and 90° F (12.7° C and 32° C).

TYPICAL PROPERTIES at 75° F (23.8° C)

TEST METHOD	RESULTS			
		PLASTIC	FLOWABLE	FLUID
ASTM C109 COMPRESSIVE STRENGTH				
	8 Hrs	9,000 psi (62.1 MPa)	8,000 psi (55.2 MPa)	7,500 psi (51.7 MPa)
	1 Day	10,000 psi (68.9 MPa)	9,500 psi (65.5 MPa)	8,500 psi (58.6 MPa)
	7 Days	12,500 psi (86.2 MPa)	12,000 psi (82.8 MPa)	10,500 psi (72.4 MPa)
	28 Days	13,500 psi (93.1 MPa)	13,000 psi (89.7 MPa)	12,000 psi (82.8 MPa)
ASTM C78 FLEXURAL STRENGTH				
	3 Days	1,000 psi (6.9 MPa)		
	28 Days	1,400 psi (9.7 MPa)		
ASTM C266 SET TIME				
		Initial: 50 mins Final: 70 mins		
ASTM C469 STATIC MODULUS OF ELASTICITY				
	3 Days	2.64 X 10 ⁶ psi (18,206 MPa)		
	28 Days	3.0 x 10 ⁶ psi (20,689 MPa)		

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. Proposition 65 - This product contains material listed by the state of California as known to cause birth defects or other reproductive harm.

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