

FASTRAC 14k Grout

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

DESCRIPTION

14K Grout is a hydraulic-cement based, precision, non-shrink, load-bearing grout having an extended working time up to 30 minutes under fluid condition. 14K 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. 14K 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.

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.

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. ³/bag at high flow

Packaging

50# bag

Shelf Life

12 mos. properly stored

Storage

Store in unopened container in a dry and cool area.

Set time – (ASTM C 191)

	Plastic	Fluid
Initial Set	15 minutes	57 minutes
Final Set	28 minutes	80 minutes

Compressive strength- (ASTM C 109)

	Plastic	Fluid
1 Day	8,800 psi (MPa 60.7)	7,200 psi (MPa 49.6)
7 Day	10,900 psi (MPa 75.1)	8,200 psi (MPa 56.5)
28 Day	12,300 psi (MPa 84.8)	10,700 psi (MPa 73.8)

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.

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 ½" 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.

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Mixing

Small quantities of 14K 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 3.9 qt (3.7L) for high flow. 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 no re-temper.

Placement

14K Grout is easily placed by pouring or pumping and compaction can be accomplished by rodding or tapping. Place grout on one side, flowing to opposite and adjacent side, to avoid entrapment of air. When necessary, provide vent holes. Grout head and excess grout may be removed after initial set.

Limited Warranty Notice

Very reasonable effort is made to apply exacting standards both in the manufacture of "14K 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.