

FASTRAK™

All Purpose, Fast Setting, Patching Mortar

MANUFACTURER

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PRODUCT DESCRIPTION

FASTRAK is a high strength, cement-based concrete and masonry patching compound. This non-shrink, single component mortar offers high strength, sulfate resistance and is stable at elevated temperatures and under wet conditions. After initial set, **FASTRAK** may be shaved or shaped to conform to surrounding surface contour.

Its high flexural to compressive strength ratio, as well as excellent bonding characteristics, produces a mortar of superior patching and splicing capability. The setting and working characteristics of **FASTRAK** accommodate the requirement for rapid patching and splicing concrete pipe. This product has been engineered to withstand the same environmental conditions as high strength concrete.

Basic Use: The non-shrink, non-staining and high strength features of **FASTRAK** are in demand by the industry. This product's workability, wear resistance and strength make it ideal for repairing old and new concrete in areas that require a very durable repair material, such as sidewalks, curb restoration, traffic areas, bridges, concrete pipe and prestress and precast concrete. This product has been found to be very useful in underground sewer and water applications such as splicing or repairing concrete pipe sections and diverting water by trenching.

FEATURES & BENEFITS

- *Permanent Repair.*
- *Fast Curing.*
- *Trim to final elevation and shape.*
- *Strength Matched.*
- *High Abrasion Resistance.*
- *Rapid Strength Gain.*
- *Excellent Bond.*

ESTIMATING

FASTRAK is available in 50 lb. (22.7 kilogram) bags.

Coverage: One bag yields approximately 0.47 cubic foot (13 liter) or 10 square feet at 1/2 inch (13 mm) thick. An 80% extension using 3/8 inch (10mm) aggregate increases the per bag yield to approximately 0.70 ft³ (20 liters).

TECHNICAL DATA

Applicable Standards:
ASTM C 928

Physical Properties at 72°F (22°C)

All data based on typical performance.

Working Time 5 minutes

Initial Set Time, ASTM C 191 7 minutes

Compressive Strength,		
ASTM C 109	1 day	2200(15)
psi (MPa)	7 days	5300(36)
	28 days	7000(48)

Flexural Strength, ASTM C 78		
psi (MPa)	28 days	1000(7)

Bond Strength, ASTM C 882		
psi (MPa)	28 days	2000 (13)

INSTALLATION

Surface Preparation: Prepare surface in accordance with ICRI Technical Guideline. No. 03732. Vertically saw cut all edges a minimum of 3/4 inch (20mm) deep to form patch boundaries. Surfaces must be clean of oil, grease, dirt and laitance. Abrade smooth surfaces to 1/8 to 1/4 inch (3-5 mm) (Ref: CSP 5, ICRI 03732) to assure bond. Soak surfaces with water prior to placement to a saturated, surface dry (SSD) condition.

Remove all unsound concrete not bonded to the rebar down to 3/4" (20 mm) below the rebar. Remove rust and scale from the rebar. Flush with water to remove all dust. Soak concrete surfaces to a saturated, surface dry (SSD) condition. Remove standing water before placing patch.

Equipment: Have proper measuring containers, tools and adequate labor to place the patch. For best results, use a gas operated, paddle type mortar mixer or a continuous type mixer. For small batches, use a 1/2 inch slow speed drill fitted with a mixing paddle.

Mixing and Mixing order: Locate the mixer close to the repair area. Pour clean water into mixer. Use 4 1/2 - 5 1/2 quarts (4.3 - 5.2 L) of water per bag depending on consistency desired. Add powdered **FASTRAK**, mix no more than one minute, until uniform in consistency. Place immediately.

Deep Pours: For applications more than 2 inches (50 mm) deep, extend up to 80% by weight of the powder with 3/8" (10 mm) hard, rounded aggregate. Mixing procedure: add water and saturated, surface dry aggregate, then add powdered **FASTRAK**. Mix for one minute.



FASTRAK



Placing: In prepared area immediately place from one side to the other. Work firmly into bottom and sides of void to remove air and assure proper bond. Slightly overfill the patch, and following initial set shave or shape the **FASTRAK** to fit the elevation of existing concrete. Seal the edges and saw cuts with light troweling.

Cold weather: Cold temperatures extend work time and setting. For best results in conditions below 35°F (2°C), heat the concrete substrate, water and **FASTRAK** bags. Do not use accelerators or anti-freeze. Cold temperatures extend work time and set time.

Hot weather: In conditions over 85°F (30°C) use cold water and keep patch cool to extend working time.

Curing: Proper curing of **FASTRAK** will improve long term performance and minimize shrinkage and cracking. Protect from moisture loss, high winds, heat of the sun and extremes in temperatures that could cause rapid drying.

FOR BEST RESULTS:

- **FASTRAK** is cement-based. Follow ACI recommended practices.
- Do not add cement accelerators or anti-freeze to **FASTRAK**. Do not retemper.
- Do not add sand or fine aggregate.
- Mix no more **FASTRAK** than can be used in 10 minutes.
- Surfaces to be repaired must be clean and sound.
- Soak surfaces with water prior to placement of **FASTRAK**.
- Not recommended for featheredge applications.
- Minimum application depth is ¼ inch (5 mm).
- Prepare surface in accordance with ICRI Technical Guideline 03732.

PRECAUTIONS

Contains portland cement. Freshly mixed cement is highly alkaline and may cause skin injury. Avoid creating and inhaling dust. Provide ventilation and respiratory protection. Wear skin and eye protection. Dust mask recommended.

Please refer to Product Material Safety Data Sheet (MSDS) before using.

STORAGE/SHELF LIFE

FASTRAK bags are to be kept in dry storage to prevent water contamination. Shelf life is a minimum of one year in unopened bags when properly stored.

WEBSITE

L&M's convenient internet website offers instant access to Tech Data Sheets, Material Safety Data Sheets, product updates, and other useful information. Visit www.lmcc.com and follow the easy steps. L&M is ready to respond to your concrete information needs - anytime - anywhere!

LIMITED WARRANTY

This product is warranted to be free of defects in material and workmanship, and conform to L&M Construction Chemicals ("L&M") quality control standards. All recommendations, statements and technical data herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty or guaranty of any kind, expressed or implied including but not limited to, an implied warranty of merchantability or an implied warranty of fitness for a particular purpose. Satisfactory results depend upon many factors beyond L&M's control. User shall rely on his or her own information and tests to determine suitability of the product for the intended use and user assumes all risk, loss, damage, expense and liability resulting from his or her direct use, indirect use or consequential to their use of the product. L&M shall not be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use or inability to use the product. L&M's sole responsibility shall be to replace that portion of the product which proves to be defective. Any warranty claim must be made within six (6) months from the date of the claimed breach. This limited warranty applies only if the product was properly installed and used according to all instructions and was properly stored prior to use.

For Professional Use Only.

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