

## FASTRAC V/O MORTAR

### One Component Polymer-Modified Repair Mortar

#### **DESCRIPTION**

FasTrac Vertical/Overhead Mortar is a single component, polymer-modified, cement-based mortar for structurally repairing deteriorated concrete. Use on vertical or overhead surfaces for repairs from feather edge to 2 inches (6 to 51mm) or apply it in lifts for deeper applications.

#### **WHERE TO USE** (can be feather edged)

- Vertical & Overhead surfaces
- Building Facades
- Balconies & columns
- Beam & soffit repair
- Bridges
- Retaining Walls
- General spalled areas
- Tuck pointing
- Parking structures
- Tunnels
- Horizontal application
- Structural applications

#### **FEATURES/BENEFITS**

- Polymer-modified
- Non-sag, low slump
- Low Shrinkage
- Thermally compatible one component
- Increases durability and freeze-thaw resistance; excellent adhesion; improves flexural strength
- Hangs 2 inches (51mm) in one lift vertically & overhead; increases job-site productivity
- Stable bond line' resists perimeter cracking
- Prevents delamination caused by temperature changes
- Factory-controlled polymer-to-cement ratio; ready to use; easily mixed with water on the job-site
- Integral corrosion inhibitor
- Includes fibers

#### **YIELD**

Approx. 0.45ft<sup>3</sup>/50# bag

#### **STORAGE**

12 mos. properly stored

Store in unopened container in a dry and cool area

#### **PACKAGING**

50# (22.7kg) bag

#### **APPLICATION TEMPERATURE RANGE**

40°F (4°C) to 90°F (32°C)

#### **HOW TO APPLY**

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

1. Remove loose and deteriorated concrete by mechanical chipping or sandblasting to obtain a fractured aggregate surface.
2. Make sure surfaces are sound, clean and free of all bond-inhibiting materials including oil, dirt, dust and laitance and standing water.

##### **Mixing**

Use FasTrac V/O Mortar at a preconditioned temperature of 71 ± 5° F (22 ± 3° C). Use 6.0 to 6.5pts (2.83 to 3.08 L) of water per 50lb (23kg) bag. Mixing must be achieved mechanically using a slow-speed, ¾ inch (19mm) drill and mixing paddle. Pour 6.0pts (2.83L) of water into a clean 5 gallon (19L) mixing bucket.

Mix while slowly adding the powder, one-third at a time. if more water is needed, up to one-half pint (0.24L) may be added. Mix up to 4 minutes to a uniform lump-free consistency. Avoid over mixing which could entrap air.

**Working time** – 20-30 minutes

**Set time** – ASTM C266

Initial 25min

Final 40min

**Shear Bond Strength** – ASTM C882

1 day.....2,500 psi (17.2 MPa)

7 day.....3,000 psi (20.7 MPa)

**Compressive Strength** ASTM C109

1day 4,500 psi (31.0 MPa)

7days 7,000 psi (48.3 MPa)

28days 9,000 psi (62.1 MPa)

**Shrinkage** – ASTM C157

Air Cure.....-0.097%

Water Cure.....+0.088%

**Salt Scaling** – ASTM C672.....None

## FASTRAC V/O MORTAR

### Application

Apply only to sound and clean properly prepared frost-free surfaces. Dampen the area to be repaired so that the pores of the concrete are filled with water. Remove any ponding or glistening water on the surface (saturated surface dry/SSD).

**IMPORTANT:** Work a scrub coat of the mixed material into the substrate to ensure intimate contact and establish bond.

Complete the repair while the scrub coat is still wet and trowel to the desired finish. The Overhead Mortar with CI can be applied to a thickness of 2 inches (51mm) in one lift. For application depths greater than 2 inches (51mm) apply FasTrac V/O Mortar in successive lifts. For additional lifts, scarify the first lift and allow it to set until hardened sufficiently to accept the next lift, about 30 minutes at 73° F (23°C). Trowel the final lift to the desired finish. Applications made during temperatures below 50°F (10°C) or above 85°F (29°C) should follow appropriate application guidelines.

### Curing

Direct sun or wind may cause unwanted rapid surface drying. Curing may be accomplished by continuous water fogging for 48 hours or cover with damp burlap or burlene curing blankets. Do not use solvent-based curing compounds. If a coating or sealer will be applied use water fogging or blanket curing methods and prep finished surface per manufacturer's recommendations.

### Clean Up

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

### Limitations

- Apply only when the surface and ambient temperature are 45-50°F (7-10°C) and rising. See Cold Weather Application guidelines, per ACI, for applications in temperatures less than 50°F (10°C). Applications made during temperatures greater than 85°F (29°C) should follow Hot Weather Application guidelines, per ACI.
- Application depths greater than 2 inches (51mm) must be completed in lifts.
- Do not add more water than specified.
- Do not add additional powder from other units
- Do not over mix

### Safety Precautions

Use adequate ventilation. Use of a NIOSH/MS approved dust respirator safety goggles and protective gloves are recommended.

### 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.

### Limited Warranty Notice

Every reasonable effort is made to apply exacting standards both in the manufacture of "FasTrac V/O Mortar" 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.