



FasTrac V/O Mortar

POLYMER-MODIFIED VERTICAL / OVERHEAD REPAIR MORTAR



Technical Data Sheet

PRODUCT DESCRIPTION

FasTrac V/O 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.

APPLICATIONS

- Vertical & Overhead Surfaces
- Beam and Soffit Repairs
- Retaining Walls
- Tuck Pointing
- Tunnels
- Building Facades
- Bridge Piles and Piers

FEATURES

- Integral Corrosion Inhibitor
- High Bond Strength
- Polymer-Modified
- Low Shrinkage
- Non-Sag, Low Slump
- 2" Hang in One Vertical Lift
- Easy-to-Use One Component
- Fiber Reinforced

SURFACE PREPARATION

The concrete substrate must be structurally sound and have attained design strength. Roughen concrete surfaces to an ICRI 310.2R Concrete Surface Profile (CSP) of 6 to 10 or as otherwise specified. Sawcut perimeter edges to a minimum 1/4 inch (6 mm) depth. Remove all loose or unsound concrete, dust, debris, and other bond inhibiting contaminants from surfaces. Presoak concrete surfaces for 2 to 3 hours prior to material installation. Surfaces should be saturated surface dry (SSD) at time of placement. For exposed rebar applications, undercut as required and remove all oxidation and rust from exposed rebar.

MIXING

Mix 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, 3/8 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.

INSTALLATION

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 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.



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CLEAN UP

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

COVERAGE AND YIELD

50 lb. (22.7 kg) bag yields approximately 0.45 cubic feet (.0127 cubic meters).

SHELF LIFE AND STORAGE

1 year from date of manufacture in original unopened containers when stored under dry, cool, weather-proof conditions.

Store product at temperatures between 40°F and 90°F (4.4°C and 32°C).

TYPICAL PROPERTIES at 75° F (23.8° C)		
TEST METHOD		RESULTS
ASTM C109 Compressive Strength		
	3 Hours	3,000 psi (20.7 MPa)
	1 Day	5,000 psi (34.5 MPa)
	7 Days	6,000 psi (41.4 MPa)
	28 Days	7,000 psi (48.3 MPa)
ASTM C882 Shear Bond Strength		
	7 Days	3,500 psi (24.1 MPa)
ASTM C496 Splitting Tensile Strength		
	28 Days	650 psi (4.5 MPa)
ASTM C157 Length Change		
	28 Days Wet	+0.08%
	28 Days Dry	-0.09%
ASTM C266 Set Time		
	Initial	25 Minutes
	Final	40 Minutes
ASTM C157 Shrinkage		
	Air Cure	-0.034%
ASTM C1202 Rapid Chloride Permeability		
	28 Days	<1,000 coulombs (Very Low)
ASTM C672 Scaling Resistance		
		0 (None)
Working Time		
		20-30 Minutes

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.

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CEMENTS | CONCRETES | EPOXIES | GROUTS | MORTARS | MIXING SYSTEMS | OVERLAYS

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