

TAMMS STRUCTURAL MORTAR

FIBER-ENHANCED, LOW PRESSURE SPRAY REPAIR MORTAR W/CORROSION INHIBITOR

DESCRIPTION

TAMMS STRUCTURAL MORTAR is a single-component repair mortar applied by low pressure spray or hand trowel for structural concrete repairs. TAMMS STRUCTURAL MORTAR is a proprietary formulation of portland cement, graded aggregates, unique fibers, and polymers used to increase adhesion, strength, and sprayability.

PRIMARY APPLICATIONS

- Vertical and overhead concrete repairs
- Interior and exterior use
- Bridge, parking garages, and tunnels
- Compatible with galvanic anodes
- Manholes, pipelines, dams and other waste water structures

FEATURES/BENEFITS

- Low pressure spray or trowel applied
- 30 minute working time
- Single-component, micro-fiber enhanced
- Silica fume and polymer enhanced
- 3/8" (0.95 cm) to 2.0" (5 cm) applications
- Contains a migratory corrosion inhibitor
- Freeze-thaw resistant
- ▲ Can contribute to LEED points

TECHNICAL INFORMATION

Material Properties @ 75°F (24°C)

Set Time ASTM C 266, Gilmore

Initial Set approx hrs 1

Final Set approx hrs 2

Compressive Strength psi (MPa) ASTM C 109

1 day 3,200 (22.0)

7 days 6,200 (42.7)

28 days 8,500 (58.6)

Flexural Strength psi (MPa) ASTM C 78

7 days 1,500 (10.3)

28 days 1,650 (11.4)

Volumetric Resistivity 11,300 ohms/cm

Shear Bond Strength psi (MPa) ASTM C 882

28 days 3,250 (22.4)

Splitting Tensile Strength psi (MPa) ASTM C 496

7 days 480 (3.3)

28 days 660 (4.5)

Freeze Thaw Resistance ASTM C 666)

300 cycles 96% RDF

Chloride Permeability

ASTM C 1202 1,050 coulombs

SHELF LIFE

1 year in original, unopened package

PACKAGING

TAMMS STRUCTURAL MORTAR is packaged in 50 lb (22.7 kg) poly-lined bags

COVERAGE/YIELD

One 50 lb (22.7 kg) bag yields approximately 0.45 ft³ (0.012 m³)

VERTICAL REPAIR

TAMMS STRUCTURAL MORTAR

Master Format #:
03 37 19



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DIRECTIONS FOR USE

Surface Preparation: Concrete surfaces must be structurally sound, free of loose or deteriorated concrete and free of dust, dirt, paint, efflorescence, oil and all other contaminants. Mechanically abrade the surface to achieve a surface profile equal to CSP 6 - 9 in accordance with ICRI Guideline 310.2. Properly clean profiled area.

Priming: Clean and prime exposed steel with DURALPREP AC. Concrete should be primed with a spray or brush coat of DURALPREP AC for low pressure spray applications. The primer coat of DURALPREP AC must be allowed to thoroughly dry prior to the application of TAMMS STRUCTURAL MORTAR. Alternately, a Saturated Surface Dry (SSD) concrete surface can be primed with a scrub coat of TAMMS STRUCTURAL MORTAR for hand applications. The repair must be made before the scrub coat dries out.

Mixing: TAMMS STRUCTURAL MORTAR will require approximately 2.5 to 3.5 qt (2.4 to 3.3 L) of potable water per 50 lb bag (22.7 kg) to achieve the proper mix consistency. Pour the measured amount of water into a clean mixing container, then add the TAMMS STRUCTURAL MORTAR, and mechanically mix for 3 to 4 minutes. For hand applications, the lower end of the water range is recommended. **Application:** TAMMS STRUCTURAL MORTAR may be hand applied or with low-pressure spray equipment commonly used for plastering. It is always recommended to use spray equipment for larger repairs. Succeeding lifts may be placed after material reaches initial set. **Curing:** TAMMS STRUCTURAL MORTAR is a cementitious repair mortar and must be cured per ACI guidelines using a Euclid Chemical curing/ cure and seal compound or appropriate water curing methods, such as wet burlap/burlene.

CLEAN-UP

Clean application tools and mixing equipment with water immediately following use.

PRECAUTIONS/LIMITATIONS

- Protect stored bags from moisture.
- Protect repair from direct sunlight, wind, and other conditions that could cause rapid drying.
- Minimum ambient and surface temperature should be 40°F (4°C) and rising at the time of application.
- Curing according to ACI guidelines is required for optimum performance and durability.
- In all cases, consult the Material Safety Data Sheet before use.

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