TAMMS STRUCTURAL MORTAR

Fiber-Enhanced, Low Pressure Spray Repair Mortar with Corrosion Inhibitor

EUCLID CHEMICAL

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
- 0.95 cm to 5 cm applications
- Contains a migratory corrosion inhibitor
- Freeze-thaw resistant

Technical Information

Material Properties @ 24°C

Set Time ASTM C 266, Gilmore

Initial Set approx hrs.....1

Final Set approx hrs 2

Compressive Strength MPa ASTM C 109

1 day.....22.0

7 days.....42.7

28 days.....58.6

Flexural Strength MPa ASTM C 78

7 days.....10.3

28 days.....11.4

Volumetric Resistivity.....11,300 ohms/cm

Shear Bond Strength MPa ASTM C 882

28 days.....22.4

Splitting Tensile Strength MPa ASTM C 496

7 days.....3.3

28 days.....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 THIN PATCH is packaged in 25kg bags

Coverage/Yield

One 25kg bag yields approximately 13.2L

Master Format #:
09 00 00

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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 must be primed with a spray or brush coat of DURALPREP AC for hand applications. The primer coat of DURALPREP AC must be allowed to thoroughly dry prior to the application of TAMMS STRUCTURAL MORTAR. Alternatively, 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. If using low pressure spray equipment, TAMMS STRUCTURAL MORTAR can be applied over an SSD substrate.

Mixing: TAMMS STRUCTURAL MORTAR will require approximately 2.6 to 3.6L of potable water per 25kg bag 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. Prior to application, follow surface preparation and priming instructions above.

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 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 Safety Data Sheet before use.