

McCANN 1-C

SINGLE-COMPONENT, VERTICAL/OVERHEAD MORTAR w/CORROSION INHIBITOR

DESCRIPTION

McCANN 1-C is a single-component, polymer-modified, ready-to-use, cement based concrete and masonry repair mortar that requires only potable water for mixing. McCANN 1-C is a proprietary formulation of portland cement, finely graded aggregates and special polymer modifiers used to increase adhesion, strength, and aid in curing. The integral corrosion inhibitor impedes corrosion causing chlorides.

PRIMARY APPLICATIONS

- Repair of numerous interior/exterior, above/below grade, vertical/overhead structural surfaces without forming

FEATURES/BENEFITS

- Compatible with galvanic anodes
- Excellent workability
- Contains a migratory corrosion inhibitor
- After initial set, may be shaved to conform to contours of the surrounding surface
- Repairs from featheredge to 3" (7.6 cm)
- Develops high strength and tenacious bond
- Excellent resistance to freeze-thaw conditions

TECHNICAL INFORMATION

Material Properties @75°F (24°C)

Set Time, ASTM C 266, Gilmore

Initial Set approx 15 min

Final Set approx 40 min

Working Time 10 to 15 min

Compressive Strength psi (MPa) ASTM C 109

1 day 2,500 (17.2)

7 days 6,500 (44.8)

28 days 7,000 (48.3)

Volumetric Resistivity 7,980 ohm/cm

Flexural Strength psi (MPa) ASTM C 78

7 Day 650 (4.5)

28 Days 1,300 (9.0)

Shear Bond Strength psi (MPa) ASTM C 882

28 Day 2,650 (18.3)

Splitting Tensile Strength psi (MPa) ASTM C 496

7 day 450 (3.1)

28 day 550 (3.8)

Freeze Thaw Resistance ASTM C 666

320 cycles 99.0% RDF

PACKAGING

MCCANN 1-C is packaged in 50 lb (22.7 kg) poly-lined bags.

SHELF LIFE

1 year in unopened package

COVERAGE/YIELD

One 50 lb (22.7 kg) bag yields approximately 0.5 ft³(0.014m³).

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 - 8 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. The primer coat of DURALPREP AC must be allowed to fully dry prior to the application of McCANN 1-C. Alternately, a Saturated Surface Dry (SSD) concrete surface can be primed with a scrub coat of McCANN 1-C. The repair must be made before the scrub coat dries out.



The Euclid Chemical Company

19218 Redwood Rd. • Cleveland, OH 44110

Phone: [216] 531-9222 • Toll-free: [800] 321-7628 • Fax: [216] 531-9596

www.euclidchemical.com

An **RPM** Company



Mixing: McCANN 1-C will require approximately 4.0 to 4.25 qt (3.8 to 4.0L) 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, slowly add the McCANN 1-C, and thoroughly mix for 2 to 3 minutes to a stiff, no slump, putty-like consistency. Use a rotary mixer with rubber tip blades for mixing quantities up to 100 lb (45.4 kg).

Application: Apply a scrub coat of neat mortar to the prepared SSD substrate. Before the scrub coat dries, apply McCANN 1-C. To ensure complete bond with the entire surface, force the McCANN 1-C firmly into the repair area by hand or with a trowel. Place the McCANN 1-C so that the material conforms to the contours of the surrounding surface. Always finish the McCANN 1-C toward the common bonding edge between the repair material and the existing surface. For repairs deeper than 3" (7.6cm) apply in multiple lifts. Score surface between lifts. Cure material using standard curing practices.

Curing: Follow standard ACI guidelines for curing. In case of high temperature, high wind, or low humidity causing rapid surface drying, use wet burlap/plastic or a water-based curing compound.

CLEAN-UP

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

PRECAUTIONS/LIMITATIONS

- Use only potable water with McCANN 1-C.
- Do not retemper or add sand to McCANN 1-C.
- Do not over-work or over-trowel the repair material.
- Do not apply at temperatures below 45°F (7°C).
- In all cases, consult the Material Safety Data Sheet before use.

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