



SPEED CRETE PM

Single-Component, Vertical/Overhead Mortar with Corrosion Inhibitor

Description

SPEED CRETE PM is a single-component, polymer-modified, ready-to-use, cement based concrete and masonry repair mortar that requires only potable water for mixing. SPEED CRETE PM is a proprietary formulation of portland cement, finely graded aggregates and special polymer modifiers used to increase adhesion, strength, and aid in curing.

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 an integral 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 days6,500 (44.8)

28 days7,000 (48.3)

Volumetric Resistivity.....7,980 ohm/cm

Flexural Strength psi (MPa) ASTM C 78

7 Day650 (4.5)

28 Days1,300 (9.0)

Shear Bond Strength psi (MPa) ASTM C 882

28 Day2,650 (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 cycles99.0% RDF

Packaging

SPEED CRETE PM 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 SPEED CRETE PM. Alternatively, a Saturated Surface Dry (SSD) concrete surface can be primed with a scrub coat of SPEED CRETE PM. The repair must be made before the scrub coat dries out.

Mixing: SPEED CRETE PM 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 SPEED CRETE PM, 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 SPEED CRETE PM. To ensure complete bond with the entire surface, force the SPEED CRETE PM firmly into the repair area by hand or with a trowel. Place the SPEED CRETE PM so that the material conforms to the contours of the surrounding surface. Always finish the SPEED CRETE PM 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 SPEED CRETE PM.
- Do not retemper or add sand to SPEED CRETE PM.
- 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 Safety Data Sheet before use.

Rev. 2.17

WARRANTY: The Euclid Chemical Company ("Euclid") solely and expressly warrants that its products shall be free from defects in materials and workmanship for one (1) year from the date of purchase. Unless authorized in writing by an officer of Euclid, no other representations or statements made by Euclid or its representatives, in writing or orally, shall alter this warranty. EUCLID MAKES NO WARRANTIES, IMPLIED OR OTHERWISE, AS TO THE MERCHANTABILITY OR FITNESS FOR ORDINARY OR PARTICULAR PURPOSES OF ITS PRODUCTS AND EXCLUDES THE SAME. If any Euclid product fails to conform with this warranty, Euclid will replace the product at no cost to Buyer. Replacement of any product shall be the sole and exclusive remedy available and buyer shall have no claim for incidental or consequential damages. Any warranty claim must be made within one (1) year from the date of the claimed breach. Euclid does not authorize anyone on its behalf to make any written or oral statements which in any way alter Euclid's installation information or instructions in its product literature or on its packaging labels. Any installation of Euclid products which fails to conform with such installation information or instructions shall void this warranty. Product demonstrations, if any, are done for illustrative purposes only and do not constitute a warranty or warranty alteration of any kind. Buyer shall be solely responsible for determining the suitability of Euclid's products for the Buyer's intended purposes.