



EUCOCRETE SUPREME

POLYMER-MODIFIED, HIGH PERFORMANCE CONCRETE WITH CORROSION INHIBITOR

HORIZONTAL REPAIR

EUCOCRETE SUPREME

MASTER FORMAT #: 03 01 30.71

DESCRIPTION

EUCOCRETE SUPREME is a versatile, single-component, latex and microsilica modified, repair mortar containing a migratory corrosion inhibitor, designed to provide protection from corrosion for repair projects of all types. Requiring only the addition of water, EUCOCRETE SUPREME is a high strength material which is easy to use with an extended working time for ease of placement. It is similar in appearance to concrete and is suitable for use as a topping or repair mortar on horizontal surfaces and formed vertical and overhead repairs.

PRIMARY APPLICATIONS

- Parking decks
- Joint repairs
- Balconies
- Equipment bases
- Floor toppings
- Pavements
- Beams
- Form & pour jobs

FEATURES/BENEFITS

- Microsilica modified for high strength
- Pre-mixed with pea gravel, ready-to-use
- Low permeability with excellent freeze/thaw resistance
- Contains an integral corrosion inhibitor
- Applications from 1" (2.5 cm) to full depth
- Interior or exterior
- Form and pour repairs
- ▲ Can contribute to LEED points

TECHNICAL INFORMATION

Typical Engineering Data @ 70°F (21°C)

Compressive Strength ASTM C 109, 2" (50 mm) cubes @ 0.5 gal/50 lb bag.

Age	Strength
1 day.....	4,700 psi (32 MPa)
7 days.....	7,250 psi (50 MPa)
28 days.....	10,300 psi (71 MPa)
56 days.....	11,000 psi (76 MPa)

Compressive Strength ASTM C 39, 3"x 6' cyl. @ 0.5 gal/50 lb bag.

1 day.....	4,530 psi (31 MPa)
7 days.....	6,820 psi (47 MPa)
28 days.....	8,500 psi (59 MPa)
56 days.....	9,000 psi (62 MPa)

Flexural Strength ASTM C 348

7 days.....	950 psi (6.6 MPa)
28 days.....	1,050 psi (7.2 MPa)

Rapid Chloride Permeability ASTM C 1202

28 days.....437 coulombs

Freeze/Thaw Resistance ASTM C 666 Procedure A

300 Cycles..... 81% relative dynamic modulus

Unit Weight.....approx. 145.0 lb/ft³ (2,323 kg/m³)

Consistency, Slump Cone>9" (229 mm)

Set Time ASTM C 403

Initial approx. 6 hr

Final approx. 7 hr

Volumetric Resistivity

28 days34,275 ohm/cm

EUCOCRETE SUPREME is a free-flowing powder designed to be mixed with water. After mixing and placing, the color may initially appear somewhat darker than the surrounding concrete. While this color will lighten up substantially as the concrete cures and dries out, the repair may always appear slightly darker than the surrounding concrete.

PACKAGING/YIELD

EUCOCRETE SUPREME is packaged in 50 lb (22.7 kg) bags. **Yield:** 0.37 ft³ (0.01m³) per bag when mixed with 0.5 gal (1.9 L) of water. Bulk bags suitable for mixing in ready-mix trucks are also available.

SHELF LIFE

2 years in original, unopened package

COVERAGE

One unit of EUCOCRETE SUPREME will cover approximately 4.5 ft² (0.42 m²) when placed at an average thickness of 1" (2.5 cm). EUCOCRETE SUPREME may be extended with up to 15 lb (6.8 kg) of 3/8" (9.5 mm) pea gravel for placements over 6" (15 cm), which will yield 0.46 ft³ (0.013 m³).

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 5-7 in accordance with ICRI Guideline 310.2. Properly clean profiled area. **Priming:** Clean exposed reinforcing steel in accordance with ICRI Technical Guideline No. 310.1R. Prime exposed steel and concrete using a spray or brush coat of DURALPREP AC. Alternately, a Saturated Surface Dry (SSD) surface can be primed with a scrub coat of EUCOCRETE SUPREME. The repair must be made before the scrub coat dries out.

Mixing: Single bags may be mixed with a drill and "jiffy" mixer. Use a paddle type mortar mixer for large jobs. All materials should be in the proper temperature range of 60°F (15°C) to 90°F (32°C). Add the appropriate amount of water, 0.45 - 0.50 gal (1.7 - 1.9L) per bag, for the batch size and then add the dry product. Mix a minimum of 3 minutes. If additional pea gravel is to be added, mix an additional 2 to 3 minutes. The mixed product should be transported to the repair area and placed immediately.

Placement: For patching, spread with a trowel, come-a-long, or square tipped shovel to a thickness that matches the surrounding concrete. **Note:** On large floor areas, use screed strips as guides in combination with vibratory screeding to level. Compact and finish by hand or machine trowel.

Finishing: This product is designed for finishing with a float or broom. A steel trowel finish may be applied, but timing of the final trowel is critical and the contractor may have difficulty achieving a smooth finish over a large area. Do not add water to the surface during the finishing operation; use EUCOBAR evaporation retarder.

Curing and Sealing: To prevent surface cracking, cure the repair with a curing and sealing compound from The Euclid Chemical Company, or cure a minimum of three days with a moisture retaining covering, such as polyethylene film. In hot, windy or direct sunlight situations, re-wet the surface and cover with a moisture retaining covering.

CLEAN-UP

Clean tools and equipment with water before the material hardens.

PRECAUTIONS/LIMITATIONS

- Do not use material at temperatures below 45°F (7°C).
- No heavy traffic until the product has fully cured.
- Keep repair from freezing until a minimum strength of 1,000 psi (6.90 MPa) is reached.
- In all cases, consult the Safety Data Sheet before use.

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