



EucoRepair SCC

Self-Consolidating Concrete Repair Mortar

Description

EUCOREPAIR SCC is a versatile, one component, self-consolidating repair mortar that is shrinkage-compensated, polymer and microfiber modified, and contains an integral corrosion inhibitor. It is designed for horizontal and formed vertical/overhead structural repairs in applications from 1 inch (2.5 cm) to full depth.

Primary Applications

- Parking decks
- Joint repairs
- Balconies
- Equipment bases
- Floor toppings
- Pavements
- Beams
- Vertical/overhead form & pour repairs

Features/Benefits

- Shrinkage compensation and reduction to minimize cracking
- Pre-mixed with pea gravel, ready-to-use
- Low permeability with excellent freeze-thaw resistance
- Polymer and microfiber modified
- Interior or exterior use
- Contains an integral corrosion inhibitor
- Long working time

▲ Can contribute to LEED points

Technical Information

Typical Engineering Data in Laboratory Conditions

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

Age

1 day.....2,750 psi (19 MPa)
 3 days.....4,100 psi (28 MPa)
 7 days.....4,800 psi (33 MPa)
 28 days.....5,600 psi (39 MPa)

Freeze/Thaw Resistance ASTM C 666 Procedure A

300 cycles.....>98% relative dynamic modulus

Sulfate Resistance ASTM C 1012

28 days.....+0.005%

Surface Resistivity @ 28 days.....31,200 Ω/cm

Flexural Strength ASTM C 78

1 day.....450 psi (3 MPa)
 7 days.....800 psi (6 MPa)
 28 days.....900 psi (6 MPa)

Rapid Chloride Permeability ASTM C 1202

28 days.....1,800 coulombs

Length Change ASTM C 157, 50% RH @ 23°C (73°F) (specimens were removed from molds @ 24 hours)

28 day shrinkage.....<0.050%

Slump Flow ASTM C 1611

Initial.....24 - 33 inches (66 cm)
 30 minutes.....24 - 33 inches (66 cm)

J-Ring Slump Flow ASTM C 1621

25 inches (63.5 cm)
 Passing Ability: 0.75 inch (1.9 cm) no visible blocking

Set Time ASTM C 403

Initial approx. 8 hrs

Fresh Wet Density ASTM C 138

144.4 lb/ft³ (2313.1 kg/m³)

Slant Shear Bond Strength ASTM C 882

7 days.....2,400 psi (165 MPa)
 28 days.....2,560 psi (177 MPa)

Packaging/yield

EUCOREPAIR SCC is packaged in 50 lb (22.7 kg) bags. **Yield:** Approximately 0.375 ft³ (0.01 m³) per bag when mixed with 0.5 gal (4 pints) of water. Bulk bags suitable for mixing in ready-mix trucks are also available.

Shelf Life

1 year in original, unopened package

Coverage

One unit of EUCOREPAIR SCC will cover approximately:

4.500 ft² (0.42 m²) at an average depth of 1 inch (2.5 cm)

1.125 ft² (0.10 m²) at an average depth of 4 inches (10.2 cm)

0.750 ft² (0.07 m²) at an average depth of 6 inches (15.2 cm)

0.560 ft² (0.05 m²) at an average depth of 8 inches (20.3 cm)

0.375 ft² (0.03 m²) at an average depth of 12 inches (30.5 cm)

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 of at least CSP 5-7 in accordance with ICRI Guideline 310.2. Properly clean profiled area.

Substrate shall be saturated surface dry (SSD) without standing water.

Priming: Clean and prime exposed steel with DURALPREP AC. Properly prepared concrete shall also be primed with a spray or brush coat of DURALPREP AC. For horizontal applications with available access, a Saturated Surface Dry (SSD) concrete surface can be primed with a scrub coat of EUCOREPAIR SCC as an alternative.

Mixing: All materials should be in the proper temperature range of 60°F (15°C) to 90°F (32°C). Single 50 lb (22.7 kg) bags may be mixed with a drill and “jiffy” mixer. Use a horizontal shaft, paddle type mortar mixer for mixing multiple bags simultaneously. 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. **Mixing Bulk Bags:** Add approximately 80% of the appropriate water for the batch size to the ready-mix concrete truck. Fully open the top of the bulk bag. Position the bulk bag over the truck opening using a forklift or crane. While the drum is turning at slow speed, cut the bottom of the bulk bag to release contents into truck. Use the remaining mix water to wash down any dry, stuck material into the drum. Mix for a minimum of 5 minutes after last bulk bag is added. Reverse drum and check consistency. **Note:** It is recommended to keep 50 lb (22.7 kg) bags on hand to adjust consistency if needed. The mixed product should be transported to the repair area and placed immediately.

Placement: Pump or pour into the formed area.

Curing and Sealing: Cure exposed surfaces of EUCOREPAIR SCC with a high-solids curing compound from The Euclid Chemical Company. In hot, windy, or direct sunlight situations, re-wet the surface after the curing compound has dried and cover with polyethylene for a minimum of three days. If a curing compound is not desired, wet cure for a minimum of three days.

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).
- 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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