

EUCOCRETE

HIGH PERFORMANCE REPAIR MATERIAL

DESCRIPTION

EUCOCRETE is a versatile, one part, microsilica modified, patching and repair compound for repair projects of all types. Requiring only the addition of water, EUCOCRETE 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, patching mortar or repair material on horizontal surfaces from 1" to 6" (25.4 to 152.4 mm)

PRIMARY APPLICATIONS

- Parking decks
- Joint repairs
- Balconies
- Equipment bases
- Floor toppings
- Pedestals
- Beams
- Pavements

FEATURES/BENEFITS

- Microsilica modified for high strength
- Premixed with pea gravel, ready-to-use
- Low permeability with excellent freeze/thaw resistance
- Long working time
- Compatible with galvanic anodes
- 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 @ 0.5gal/50 lb bag.*

Age	Strength
1 day.....	5,000 psi (34 MPa)
3 days.....	8,000 psi (55MPa)
7 days.....	9,500 psi (66 MPa)
28 days.....	11,500 psi (79 MPa)

Flexural Strength ASTM C 348*

7 days.....	2,000 psi (9 MPa)
28 days.....	2,300psi (10 MPa)

Rapid Chloride Permeability ASTM C 1202*

28 days.....	1000 coulombs
56 days.....	900 coulombs

Freeze/Thaw Resistance ASTM C-666 Procedure A*

1000 Cycles..... 99% relative dynamic modulus

Working Time 2 hrs 30 min

Consistency:

Initial slump.....	10" (254 mm)
30 minute slump.....	9.5" (241 mm)
1 hour slump.....	9" (229 mm)

Set Time ASTM C 403

Initial.....	3 hrs 40min
Final.....	4 hrs 40min

Unit Weight.....146.41 lb/ft³ (2345.49 kg/m³)

Note: Eucocrete will accept normal traffic in 24 hours if curing temperature is @ 70°F (21°C).

* Per ICRI Guideline 03740 'Data Sheet' Protocol **Actual performance may vary depending upon water content.

EUCOCRETE 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 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 R/M transit trucks are also available.

SHELF LIFE

2 years in original, unopened package.

COVERAGE

One unit of EUCOCRETE will cover approximately 4.5 ft² (0.42 m²) when placed at an average depth of 1" (25 mm). EUCOCRETE may be extended with up to 15 lbs (6.8 kg) of 3/8" (9.5 mm) pea gravel which will yield 0.46 ft² (0.013 m²). This may alter certain engineering properties. Contact The Euclid Chemical Company for additional information.

High Performance Repair Material
EUCOCRETE

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An **RPM** Company



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 a minimum depth of 1/8" (3 mm) to achieve a surface profile equal to CSP 6 in accordance with ICRI Guideline 03732. 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. Alternately, a Saturated Surface Dry (SSD) concrete surface can be primed with a scrub coat of EUCOCRETE. The repair must be made before the scrub coat dries out.

Mixing: Small quantities 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 for the batch size and then add the dry product. Mix a minimum of 3 minutes. If additional pea gravel is to be added, do so now and 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. Finish to desired texture. 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 appearance. 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 Do not add additional water to the surface during the finishing operation. If additional liquid is required, use EUCOBAR finishing aid.

Curing and Sealing: To prevent surface cracking, cure the floor 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).
- No heavy traffic until the product has cured.
- Keep repair from freezing until a minimum strength of 1000 psi (6.90 MPa) is reached.
- EUCOCRETE requires a primer bond coat and a curing compound.
- In all cases, consult the Material Safety Data Sheet before use.