



# THE EUCLID CHEMICAL COMPANY

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# EUCOCRETE

HIGH PERFORMANCE REPAIR MATERIAL

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**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.

### PRIMARY APPLICATIONS

- Parking decks
- Balconies
- Floor toppings
- Beams
- Joint repairs
- Equipment bases
- Pedestals
- 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
- Suitable for application from 1"-6" (25.4-152.4 mm)
- Suitable for interior or exterior applications
- Suitable for "form and pour" repairs

### PACKAGING/YIELD

EUCOCRETE is packaged in 50 lb (22.7 kg) bags. When mixed with 0.5 gal (1.9 liter) of water, the unit yields 0.37 ft<sup>3</sup> (0.01m<sup>3</sup>) per bag. One unit of EUCOCRETE will cover approximately 4.5 ft<sup>2</sup> (0.42 m<sup>2</sup>) when placed at an average depth of 1" (25 mm).

A unit of EUCOCRETE may be extended with up to 25 lb (11.3 kg) of 3/8" (9.5 mm) pea gravel which will yield @ 0.52 ft<sup>3</sup> (0.015 m<sup>3</sup>). This may alter certain engineering properties. Contact The Euclid Chemical Company for additional information

EUCOCRETE may also be ordered in bulk bags. These are suitable for mixing in R/M transit trucks for large placements.

Note: This product requires a primer bond coat and a curing compound.

### TECHNICAL INFORMATION

#### **Typical Engineering Data**

#### **Compressive Strength**

ASTM C-109 2" (50 mm) cubes		
1 day	5,000 psi	(34 MPa)
3 days	6,500 psi	(45 MPa)
7 days	8,000 psi	(54 MPa)
28 days	9,500 psi	(65 MPa)

#### **Flexural Strength ASTM C-348**

7days	1,300 psi	(9 MPa)
28days	1,500 psi	(10 MPa)

#### **Freeze/Thaw Resistance ASTM C-666**

Procedure A (1000 cycles)

Relative Dynamic Modulus: 99%

#### **Working time**

initial	10"	(254 mm)
30 minutes	9 1/2"	(241 mm)
1 hour	9"	(229 mm)

#### **Slump**

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

**Appearance**-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.

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 area.

### DIRECTIONS FOR USE

**Surface Preparation**-New concrete must be a minimum of 28 days old if an epoxy adhesive will be used to bond the topping. If a product bond coat is used, the concrete must be a minimum of 3 days old.

The concrete must be clean and rough. All oil, dirt, debris, paint and unsound concrete must be removed. The surface must be prepared mechanically using a scabber, bushhammer, shotblast or scarifier which will give a surface profile of a minimum 1/8" (3 mm) and

expose the coarse aggregate of the concrete. The final step in cleaning should be the complete removal of all residue with a vacuum cleaner or pressure washing.

**Joints and Edges**-Edges should be sawcut to 1/4" (6 mm) deeper than the topping thickness and the floor should be notched at the edge of the repair to provide a locked in, reinforced edge. Moving joints as in the case of expansion joints should be brought up through the repair by sawcutting or with the use of a divider strip.

**Exposed Reinforcement Steel**-Exposed rebar may be treated with an anti-corrosion coating such as CORR-BOND or EUCO #452 LV epoxy. Remove all loose rust and scaling, preferably by sandblasting to white metal prior to coating the rebar.

**Bonding**-After the surface has been prepared, prime all areas with either a bond coat of EUCOCRETE fortified with SBR LATEX or an epoxy bonding agent such as CORR-BOND or EUCO #452 EPOXY.

**Bond Coat**-Mix EUCOCRETE as instructed but add an additional pint (0.47 liter) of SBR LATEX per unit of the mix. Broom the bond coat onto the prepared and pre-dampened concrete. Apply the EUCOCRETE topping before the bond coat has dried.

**Epoxy Primer**-Use EUCO #352 (LV or MV) epoxy adhesive for exterior repairs. Use EUCO #452 (LV or MV) epoxy adhesive for interior repairs.

Note:For extended working time, epoxy type bond strengths and/or corrosion protection of reinforcing steel, use CORR-BOND cement/epoxy compound as a bonding agent and protective coating for rebar.

Follow mixing and placement instructions on the respective product technical data sheet.

**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) - 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 2-3 minutes. The mixed product should be transported to the repair area and placed immediately.

**Placement**-Discharge material from mixer and place. 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.

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**-Finish the repair material to the desired texture. 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, such as SUPER AQUA-CURE VOX, SUPER REZ-SEAL or SUPER FLOOR COAT. 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.

Shelf life is 2 years in original, unopened package.

#### **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.



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