



CONCRETE-TOP SUPREME

SINGLE COMPONENT CEMENTITIOUS TOPPING & REPAIR MORTAR

EUCLID CHEMICAL

DESCRIPTION

CONCRETE-TOP SUPREME is a latex and microsilica modified, cementitious mortar designed for use as a concrete repair mortar at thicknesses of 3/8" to 2" (9.5 mm to 50 mm). This product is a single-component formula which incorporates a powder latex technology, providing protection from corrosion and excellent durability under freeze-thaw cycles as well as reducing ingress by water and de-icing salts.

PRIMARY APPLICATIONS

- Parking decks
- Warehouse floors
- Shoulder repairs
- Walkways
- Pavements
- Light industrial floors
- Ramps

FEATURES/BENEFITS

- Provides a strong, wear resistant overlay
- Contains an integral corrosion inhibitor
- Excellent bond to properly prepared sound concrete
- Compatible with galvanic anodes
- Suitable for both interior and exterior use
- Formulated for easy placement

TECHNICAL INFORMATION

The following are typical values obtained under laboratory conditions. Expect reasonable variation under field conditions.

Compressive Strength ASTM C 109, 2" (50 mm) cubes

Age	Strength
1 day.....	4,000 psi (27.6 MPa)
7 days.....	7,000 psi (48.3 MPa)
28 days.....	9,000 psi (62.1 MPa)
56 days.....	9,500 psi (65.5 MPa)

Flexural Strength ASTM C 348

7 days.....	1,200 psi (8.3 MPa)
28 days.....	1,250 psi (8.6 MPa)

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

14 days.....	-0.10%
56 days.....	-0.13%

Chloride Permeability ASTM C 1202

28 days.....	1,200 coulombs
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Freeze/Thaw Resistance ASTM C 666 Procedure A

300 Cycles.....	92% relative dynamic modulus
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Working Time approx. 30 min

Initial Set approx. 1 hour

Final Set approx. 3 hours

Unit Weight.....approx. 140 lb/ft³ (2243 kg/m³)

CONCRETE-TOP SUPREME is a free-flowing powder as packaged. After mixing and placing, the color may initially appear darker than the surrounding concrete, but will lighten substantially as it cures.

PACKAGING/YIELD

CONCRETE-TOP SUPREME is packaged in 50 lb (22.7 kg) moisture resistant bags. **Yield:** is 0.40 ft³/bag (0.011 m³) when mixed with 2.5 qt (2.4 L) of water. Typical water requirement is 2.0 to 3.0 qt (1.9 to 2.8 L)/bag. A unit of material may be extended with 15 lb (6.8 kg) of 3/8" (9.5 mm) pea gravel. This will yield 0.47 ft³ (0.013 m³) and may be used for overlay placements that exceed 2" (50 mm) in depth.

SHELF LIFE

2 years in original, unopened package

SPECIFICATIONS/COMPLIANCES

Canadian Food Inspection Agency, MTQ, MTO

HORIZONTAL REPAIR

CONCRETE-TOP SUPREME

MASTER FORMAT #:
03 01 30.61

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 & Bonding (Horizontal Toppings): For the best adhesion to concrete, use EUCOFLOOR EPOXY PRIMER seeded with sand as the bonding coat. Refer to the EUCOFLOOR EPOXY PRIMER technical data sheet for full instructions. Alternatively, application of EUCOWELD 2.0 to a dry substrate or a scrub coat of CONCRETE-TOP SUPREME to the saturated surface dry (SSD) concrete surface may be used for bonding. The topping material must be placed on the scrub coat before the scrub coat dries out.

Mixing: A single bag of CONCRETE-TOP SUPREME may be mixed with a drill and “jiffy” mixer. Use a paddle type mortar mixer for large jobs. All material should be in the proper temperature range of 45°F (7°C) to 90°F (32°C). Add the appropriate amount of water, 2 to 3 qt (1.9 to 2.8 L)/bag, then slowly add the dry product. Mix for 3 to 5 minutes.

Placement: For patching, spread with a trowel, come-a-long, or square tipped shovel to a thickness that matches the surrounding concrete. When used as an overlay, use screed strips along with vibratory screeding to level.

Finishing: Finish the repair material to the desired texture. This product is designed for finishing with a float or broom texture. A steel trowel finish may be applied but timing of the final trowel is critical. For a hard, flat troweled surface, delay finishing until the product is near final set to reduce the risk of blistering during troweling. Do not add additional water to the surface during the finishing operation. If additional liquid is required, use EUCOBAR evaporation retarder. **NOTE:** Always re-establish joints when using this product as an overlay.

Curing and Sealing: Proper curing procedures are important to ensure the durability and quality of the repair. To reduce surface cracking, cure the floor with a high solids curing compound, such as SUPER AQUA-CURE VOX or SUPER DIAMOND CLEAR VOX. Note: Do not use a solvent based curing compound on this product. If a curing compound is not desired, cover with quality plastic sheeting for a minimum of three days.

CLEAN-UP

Clean tools and equipment with water before the material hardens.

PRECAUTIONS/LIMITATIONS

- Do not allow repairs to freeze until the material has reached a minimum 1,000 psi (7 MPa) compressive strength.
- Use only potable water for mixing.
- Do not use material at temperatures below 45°F (7°C).
- When necessary, follow the recommendations in ACI 305R “Guide to Hot Weather Concreting” or ACI 306R “Guide to Cold Weather Concreting”.
- Always mix full units.
- Do not use a solvent based curing compound on this product.
- Do not use DURALPREP A.C. as a bonding agent for toppings and overlays done with CONCRETE-TOP SUPREME.
- Store product in a dry place.
- In all cases, consult the Safety Data Sheet before use.

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