

# CONCRETE-TOP SUPREME

## ONE PART, MODIFIED DECK REPAIR

### 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" (10 mm to 50 mm). This product is a one part formula which incorporates powder latex technology. It provides protection from corrosion and excellent durability under freeze-thaw cycling as well as reducing ingress by water and de-icing salts. **CONCRETE-TOP SUPREME** offers normal set times, a mid range slump for easy workability and is compatible with galvanic anodes.

### PRIMARY APPLICATIONS

- Parking decks
- Pavements
- Joints
- Marine structures
- Curbs and gutters
- Ramps
- Floors
- Walkways

### FEATURES/BENEFITS

- Provides a strong, wear resistant topping
- Consistent working time in cold & hot weather
- Contains an integral corrosion inhibitor
- Resists penetration of water and de-icing salts for good substrate protection
- Excellent bond to properly prepared sound concrete
- Easy to use one part system
- Suitable for both indoor and outdoor use
- High slump formula for easy handling
- ▲ Can contribute to LEED points

### TECHNICAL INFORMATION

#### Typical Engineering Data\*\*

**Compressive Strength** ASTM C 109, 2" (50 mm) cubes @ 2.2 qts/50 lb bag.\*

Age	Strength
1 day.....	4,000 psi (27.6 MPa)
3 days.....	5,600 psi (38.6 MPa)
7 days.....	7,600 psi (52.4 MPa)
28 days.....	10,200 psi (70.3 MPa)
56 days.....	11,000 psi (75.8 MPa)

**Flexural Strength** ASTM C 348\*

1 day.....	750 psi (5.2 MPa)
3 days.....	850 psi (5.9 MPa)
28 days.....	1,200 psi (8.3 MPa)
56 days.....	1,250 psi (8.6 MPa)

**Linear Shrinkage** ASTM C 157\* 50% R. H. @ 73°F (23°C)

3 days.....	-0.02%
7 days.....	-0.04%
14 days.....	-0.07%
28 days.....	-0.07%
56 days.....	-0.08%

#### Tensile Bond Strength

CAN A23.2-6B 28 days.....Greater than concrete

**Bond Strength** ASTM C 882 (modified)

1 day.....	1,200 psi (8.3 MPa)
7 days.....	2,300 psi (15.8 MPa)
28 days.....	2,500 psi (17.2 MPa)

**Sulfate Resistance** ASTM C 1012\*

7 days.....	+0.020%
28 days.....	+0.028%
56 days.....	+0.028%

**Chloride Permeability** ASTM C 1202\*

7 days.....	4,000 coulombs
28 days.....	1,300 coulombs
56 days.....	900 coulombs (very low)

**Freeze/Thaw Resistance** ASTM C 666 Procedure A\*

500 Cycles..... 100% relative dynamic modulus

**Working Time** ..... 30 min

**Initial Set** ..... 1 hour

**Final Set** ..... 2 1/2 hours

**Unit Weight**..... 140 lb/ft<sup>3</sup> (2243 kg/m<sup>3</sup>)

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

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

### PACKAGING/YIELD

**CONCRETE-TOP SUPREME** is packaged in 50 lb (22.7 kg) moisture resistant bags. **Yield:** is 0.40 ft<sup>3</sup>/bag (0.011 m<sup>3</sup>) when mixed with 2.5 qts (2.4 L) of water. Typical water requirement is 2.0 to 2.5 qts (1.9 to 2.3 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 0.55 ft<sup>3</sup> (0.016 m<sup>3</sup>) and may be used for overlay placements that exceed 2" (50 mm) in depth. Product strength may be reduced 10 to 15% with aggregate extension.

**CONCRETE-TOP SUPREME**  
One Part, Modified Deck Repair

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An **RPM** Company



## SHELF LIFE

2 years in original, unopened package.

## 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 CONCRETE TOP SUPREME. The repair must be made before the scrub coat dries out.

**Mixing:** Small quantities 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 40°F (4°C) to 100°F (38°C). Add the appropriate amount of water, 2 to 3 qt. (1.9 to 2.3 L)/bag, for the batch size and then add the dry product. Mix for 3 to 5 minutes.

**Placement:** Discharge material from mixer and place on to floor. For patching, spread with a trowel, come-a-long, or square tipped shovel to a thickness that matches the surrounding concrete. On large areas, use screed strips 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 appearance. A steel trowel finish may be applied but timing of the final trowel is critical. Do not add additional water to the surface during the finishing operation. If additional liquid is required, use EUCOBAR finishing aid. For a hard, flat troweled surface, delay finishing until the product is near final set (approx. 3 hours) to reduce the risk of blistering during troweling.

**Curing and Sealing:** Proper curing procedures are important to ensure the durability and quality of the repair. To prevent 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 polyethylene for a minimum of three (3) days. **NOTE:** Always re-

## 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 of 1000 psi (7 MPa) compressive strength.
- Use only potable water for mixing.
- Do not use material at temperatures below 45°F (7°C).
- No heavy traffic until the product has cured.
- Mixing partial bags may yield variable results, always mix full units.
- Do not use a solvent based curing compound on this product.
- Store product in a dry place.
- In all cases, consult the Material Safety Data Sheet before use.

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