

# THIN-TOP SUPREME

## ONE PART, MODIFIED DECK RESURFACER

### DESCRIPTION

**THIN-TOP SUPREME** is a latex and microsilica modified cementitious mortar designed for use as a floor or deck topping at thicknesses of 1/16" to 3/8" (1.6 mm to 10 mm). This product is a one part formula which incorporates powder latex technology. It provides excellent durability under freeze/thaw cycling as well as protection against ingress by water, de-icing salts and corrosion. THIN-TOP SUPREME offers normal set times and a mid range slump for easy workability.

### PRIMARY APPLICATIONS

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

### FEATURES/BENEFITS

- Provides a strong, wear resistant thin overlay
- Excellent durability under freeze/thaw cycling
- Contains an integral corrosion inhibitor
- Excellent bond to concrete and steel
- Resists penetration of water and de-icing salts for good substrate protection
- Suitable for both interior and exterior use
- Consistent working time in cold & hot weather
- ▲ Can contribute to LEED points

### TECHNICAL INFORMATION

#### Typical Engineering Data\*\*

**Compressive Strength** ASTM C 109, 2" (50 mm) cubes @ 2.9 qts/50 lb bag.\*

| Age          | Strength             |
|--------------|----------------------|
| 1 day.....   | 3,000 psi (20.7 MPa) |
| 7 days.....  | 5,800 psi (40.0 MPa) |
| 28 days..... | 7,200 psi (49.6 MPa) |
| 56 days..... | 8,000 psi (55.1 MPa) |

**Flexural Strength** ASTM C 348\*

|              |                     |
|--------------|---------------------|
| 1 day.....   | 700 psi (4.8 MPa)   |
| 3 days.....  | 800 psi (5.5 MPa)   |
| 28 days..... | 1,000 psi (6.9 MPa) |
| 56 days..... | 1,200 psi (8.2 MPa) |

**Linear Shrinkage** ASTM C 157\*

|                         |        |
|-------------------------|--------|
| 50% R. H. @ 73°F (23°C) |        |
| 3 days.....             | -0.02% |
| 7 days.....             | -0.05% |
| 14 days.....            | -0.08% |
| 28 days.....            | -0.09% |
| 56 days.....            | -0.09% |

#### Tensile Bond Strength

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

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

|              |                      |
|--------------|----------------------|
| 1 day.....   | 1,000 psi (6.9 MPa)  |
| 7 days.....  | 2,100 psi (14.5 MPa) |
| 28 days..... | 2,500 psi (17.2 MPa) |

**Sulfate Resistance** ASTM C 1012\*

|              |         |
|--------------|---------|
| 7 days.....  | +0.019% |
| 28 days..... | +0.024% |
| 56 days..... | +0.024% |

**Chloride Permeability** ASTM C 1202\*

|              |                |
|--------------|----------------|
| 7 days.....  | 7,000 coulombs |
| 28 days..... | 2,000 coulombs |
| 56 days..... | 1500 coulombs  |

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

500 cycles ..... 100% relative dynamic modulus

**Working Time** ..... 30 to 40 minutes

**Initial Set** ..... 1 to 1.5 hours

**Final Set** ..... 3 hours

**Unit Weight**..... 127 lb/ft<sup>3</sup> (2036 kg/m<sup>3</sup>)

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

**Appearance:** THIN-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 and dries out, however, it may always appear somewhat darker than the surrounding concrete.

### PACKAGING/YIELD

THIN-TOP SUPREME is packaged in 50 lb (22.7 kg) moisture resistant bags. Yield: is 0.45 ft<sup>3</sup>/bag (0.013 m<sup>3</sup>) when mixed with 3 qts (2.8 L) of water. Typical water requirement is 2.75 to 3.5 qts (2.6 to 3.3 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 0.53 ft<sup>3</sup> (0.014 m<sup>3</sup>). Product strength may be reduced 10 to 15% with aggregate extension.

Thin-Top Supreme  
One Part, Modified Deck Resurfacer

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## SHELF LIFE

2 years in original, unopened package.

## COVERAGE

21.5 ft<sup>2</sup> @ 1/4" thickness (1.95 m<sup>3</sup> @ 6.3 mm).

## 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 using a spray or brush coat of DURAPREP AC. Alternately, a Saturated Surface Dry (SSD) concrete surface can be primed with a scrub coat of THIN TOP SUPREME. 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 material should be in the proper temperature range of 60°F (15°C) to 90°F (32°C). Add the appropriate amount of water 2.75 to 3.5 qt (2.6 to 3.3 L)/bag for the batch size and then add the dry product. Mix for 3 to 5 minutes.

**Placement:** Discharge material from mixer immediately 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. Apply by hand troweling. On large areas, use screed strips with vibratory screeding to level.

**Finishing:** This product is designed for finishing with a float or broom appearance. 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. **Do not wet cure.** Always re-establish floor and slab joints when using this product as an overlay.

## CLEAN-UP

Clean tools and equipment with water before the material hardens.

## PRECAUTIONS/LIMITATIONS

- Do not wet cure.
- 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 add admixtures or sand.
- Do not use material at temperatures below 45°F (7°C) or above 100°F (38°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.