



# THIN-TOP SUPREME

## PREMIUM POLYMER & MICROSILICA MODIFIED REPAIR & OVERLAY MORTAR

### DESCRIPTION

**THIN-TOP SUPREME** is a latex and microsilica modified cementitious mortar designed for use as a floor or deck topping at thicknesses of 1.6 mm to 10 mm. This product is a single-component formula which incorporates a powder latex technology. It provides excellent durability under freeze-thaw cycling as well as reducing the ingress of water and de-icing salts. THIN-TOP SUPREME offers normal set times in a trowelable consistency 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 in freeze-thaw cycles
- Contains an integral corrosion inhibitor
- Excellent bond to prepared concrete
- Reduces the penetration of water and de-icing salts for substrate protection
- Suitable for both interior and exterior use
- Can contribute to LEED points

### TECHNICAL INFORMATION

**Typical Engineering Data** under laboratory conditions @

23°C 50% RH

**Compressive Strength** ASTM C 109, 50 mm cubes @ 2.7 L /22.7 kg bag.

Age	Strength
1 day.....	19.3 MPa
7 days.....	34.5 MPa
28 days.....	46.2 MPa
56 days.....	54.5 MPa

**Linear Shrinkage** ASTM C 157

3 days.....	-0.02%
7 days.....	-0.05%
14 days.....	-0.08%
28 days.....	-0.10%
56 days.....	-0.11%

**Unit Weight**.....approx. 2082 kg/m<sup>3</sup>

**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, though it may always appear somewhat darker than the surrounding concrete.

**Flexural Strength** ASTM C 348

7 days.....	6.6 MPa
28 days.....	7.9 MPa

**Split Tensile Strength** ASTM C 496

7 days.....	3.5 MPa
28 days.....	3.8 MPa

**Freeze/Thaw Resistance** ASTM C 666 Procedure A 300 cycles ..... 100% relative dynamic modulus

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

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

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

### PACKAGING

**THIN-TOP SUPREME** is packaged in 25kg moisture resistant bags. Yield: 13L/bag when mixed with 3.1L of water. Typical water requirement is 2.8 to 3.6 L/bag.

### SHELF LIFE

2 years in original, unopened package.

### SPECIFICATIONS/COMPLIANCES

Canadian Food Inspection Agency, MTQ and MTO

## DIRECTIONS FOR USE

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**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 4-6 in accordance with ICRI Guideline 310.2. Properly clean profiled area.

**Priming:** Clean and prime exposed steel with DURALPREP A.C.. Concrete should be primed with a spray or brush coat of DURALPREP A.C.. The primer coat of DURALPREP A.C. must be allowed to thoroughly dry prior to the application of the repair mortar. 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:** Single bags 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 15°C to 32°C. Add the appropriate amount of water 2.8 to 3.6L per 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 the repair area. For repairs, spread with a trowel, come-a-long, or square tipped shovel to a thickness that matches the surrounding concrete. Work material into place by floating or troweling. On large areas, use screed strips with a 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; use EU COBAR evaporation retarder. 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 material with a high solids curing compound, such as SUPER AQUACURE 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 3 days. **Do not wet cure.** Always re-establish floor and slab joints when using this product as an overlay

## CLEAN UP

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Clean tools and equipment with water before the material hardens. Hardened THIN-TOP SUPREME will require removal by mechanical means.

## PRECAUTIONS / LIMITATIONS

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- Do not wet cure. Do not use a solvent based curing compound on this product.
- Do not allow repairs to freeze until the material has reached a minimum of 7 MPa compressive strength.
- Use only potable water for mixing.
- Do not add admixtures or sand.
- Do not use material at temperatures below 7°C or above 38°C.
- No heavy traffic until the product has cured.
- Mixing partial bags may yield variable results; always mix full units.
- Store product in a dry place.
- For repairs and toppings thicker than 9.5 mm, use CONCRETE-TOP SUPREME.
- In all cases, consult the Safety Data Sheet before use.

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