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THIN-TOP SUPREME

ONE PART, MODIFIED DECK RESURFACER

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
- Docks
- Marine structures
- Curbs and gutters
- Floors
- Ramps
- Joints
- Pavements

FEATURES / BENEFITS

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

SPECIFICATIONS / COMPLIANCES

- THIN-TOP SUPREME meets or exceeds the bond strength requirements of ASTM C-1059-91, Type II.

PACKAGING / YIELD

THIN-TOP SUPREME is packaged in 50 lb (22.7 kg) moisture resistant bags. When mixed with 3.0 quarts (2.8 liter) of water yield is 0.45 ft^3/bag (0.013 m^3). Typical water requirement is 2.75 - 3.5 quart (2.6-3.3 liter)/ bag.

For filling deep areas, a unit of material may be extended with 15 lb (6.8 kg) of 3/8" (9.5 mm) pea gravel for a yield of 0.53 ft^3/bag (0.014 m^3). Product strength may be reduced 10-15% with aggregate extension.

COVERAGE

One unit of THIN-TOP SUPREME will cover 21.5 ft^2 @ 1/4" thickness (1.95 m^2 @ 6.3 mm).

TECHNICAL INFORMATION

Engineering Data **

Compressive Strength @2.9 qts/50lb bag
ASTM C-109 2" (50 mm) cubes

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%

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
AASHTO T-277 (ASTM C1202)

7 days	7,000	coulombs
28 days	2,000	coulombs
56 days	1,500	coulombs

Freeze/Thaw Resistance
ASTM C-666 Procedure A

500	cycles	100%

Working Time: 30-40 mins
Initial Set: 1-1 1/2 hours
Final Set: 3 hours
Unit Weight: 127 lb/ft^3 (2036 kg/m^3)

** Actual performance may vary depending upon water content.

Shelf Life: 2 years in original, unopened package.

Appearance

THIN-TOP SUPREME is a free flowing powder designed to be mixed with water. After mixing and placing, the color may initially appear darker than the surrounding concrete. While this color will lighten up substantially as the THIN-TOP SUPREME cures and dries out, the repair may always appear somewhat darker than the surrounding concrete. This product is designed for finishing with a float or broom appearance. A steel trowel finish may be applied after it has stiffened enough to support traffic.

DIRECTIONS FOR USE

Surface Preparation-New concrete must be a minimum of 3 days old and must be textured at the time of placement to secure a good mechanical bond of the topping. If the new concrete is not finished with an appropriate texture, follow surface preparation procedures below for old concrete.

Old 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 scabbler, bushhammer, shotblaster, scarifier or hydroblaster 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 (pressure washing, etc.). All concrete must possess an open surface texture with all curing compounds and sealers removed.

The concrete surface must be dampened prior to application of the bond coat.

Bonding-After the surface has been prepared and predampened, prime all areas with a bond coat. For a bond coat of THIN-TOP SUPREME, mix the product as instructed but add an additional 1-2 pint (0.5-1.0 liter) of water per bag. Broom the bond coat on to the prepared and predampened concrete. Apply THIN-TOP SUPREME before the bond coat has dried.

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 a protective coating for re-bar. 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 material should be in the proper temperature range of 60^{O}F (15^{O}C) - 90^{O}F (32^{O}C). Add the appropriate amount of water [2.75-3.5 qt. (2.6-3.3 liter)/bag] for the batch size and then add the dry product. Mix 3-5 minutes. The mixed product should be quickly transported to the repair area and placed immediately.

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. Finish by hand troweling. On large floor areas, use screed strips as guides in combination with vibratory screeding to level.

Finishing-Finish the topping with a float or broom. 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 hrs.) to reduce the risk of blistering during troweling.

Curing and Sealing-Proper curing procedures are important to ensure the durability and quality of the topping. To prevent surface cracking, cure the THIN-TOP SUPREME with a high solids curing compound, such as SUPER AQUA-CURE VOX or SUPER DIAMOND CLEAR VOX. Do not use a solvent based curing compound on this product. In hot, windy or direct sunlight situations, rewet the surface and cover with polyethylene for a minimum of three days.

If a curing compound is not desired, cure with polyethylene sheeting for a minimum of 3 days. Do not wet cure. NOTE: 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 use material at temperatures below 45^{O}F (7^{O}C) or above 100^{O}F (38^{O}C).
- Do not use a solvent based curing compoud on this product.
- Do not wet cure.
- No heavy traffic until the product has cured.
- Store in a dry place.
- Keep product off skin and out of eyes, wear protective clothing and eye-wear.
- Do not add admixtures or sand.
- Mixing partial bags may yield variable results, always mix full units
- Always re-establish floor and slab joints when using this product as an overlay.