



Spec Topping MT

Concrete resurfacing material

PRODUCT DESCRIPTION

Spec Topping MT is a cement based, polymer modified decorative concrete topping material. Spec Topping MT is a thinly applied topping that closely resembles the look of natural concrete. Spec Topping MT can be trowel or broom finished and can be stained. Spec Topping MT is available in 2 grades, MT-F for fine smoother finishes, and MT-R for coarser or broom finish textures.

USE

Spec Topping MT is used to re-surface concrete that is worn, pitted or spalled. Spec Topping MT can be used interior or exterior over existing structurally sound horizontal concrete surfaces including plazas, patios, parking decks, walkways, driveways, garage floors, or most other residential or commercial concrete surfaces. May also be used on vertical concrete surfaces. Spec Topping MT is compatible with Dayton Superior Pro Patina Stains for producing unique color effects.

BENEFITS

- ◇ 1-component, just add water
- ◇ Withstands foot and light vehicular traffic
- ◇ Freeze/thaw resistant
- ◇ Fast turn-around, accepts foot traffic in 2-3 hours, light vehicular traffic in 6-8 hours
- ◇ Cures to a light gray concrete color or may be stained

PROPERTIES, TEST DATA

Working time: 30 minutes @ 70°F (21°C)

Initial Set: 45 minutes @ 70°F (21°C)

Final Set: 1 hour @ 70°F (21°C)

Compressive strength: 1 day: 3000 psi (20.6 Mpa)

28 days: 5000 psi (34.5 Mpa)

APPLICATION

Substrate Preparation

Proper and complete substrate surface preparation is critical to the success of the project. The substrate to receive the Spec Topping MT must be sound, free of any and all contaminants that would interfere with the adhesion of the products, and all spalls, delaminated areas and cracks must be properly repaired prior to application. The substrate must exhibit a slight profile (similar to that of a medium sand paper) and must be absorptive (water should not bead up when placed on the substrate surface). Joints within the substrate must be kept open and maintained through the applied Spec Topping MT. Cracks exhibiting movement must be properly repaired and additional joints may be necessary to allow for the continued movement of the substrate within the area of the crack. Placement of Spec Topping MT over moving cracks or joints can result in cracking and delaminating of the Spec Topping MT. Repair non-moving cracks, spalls and delaminated areas with the appropriate epoxy bonder or cement based repair mortar.

(Contact Technical Service for recommendations).

For crack repairing with epoxies, ensure the epoxy is confined to the crack only, not over-filled and out onto the slab surface. The top surface of the epoxy within the crack should be broadcast with silica sand, while the epoxy is still wet, to aid in the adhesion of the Spec Topping MT. Once the Spec Topping MT is installed a joint will need to be sawed through the Spec Topping MT and into the substrate a minimum of 1/3 the depth of the substrate to allow for continued movement. This joint should be as close to the area of the original crack as possible. Contact Conspec for additional or alternative crack repair methods. When using Conspec epoxy for crack repairs, cure times are typically 8 hours. Contact Conspec for additional information, as cure times are related to ambient conditions and could require longer or shorter curing times depending on the specific conditions.

For small pits or depressions, the Spec Topping MT can be mixed to a stiffer than normal consistency and applied to fill these areas prior to overlaying the rest of the area. Allow 30-45 minutes, minimum prior to overlaying the rest of the area.

When using cement based repair mortars for repair of deeper or larger spalls, and delaminated areas, all repair materials must be fully cured prior to installation of the Spec Topping MT. When using concrete or slow set mortars, the cure time is typically seven days. When using Conspec fast set repair materials, cure times are typically 1-2 days.

Surface preparation methods can include, but are not limited to, steel shot blasting, sand blasting, water blasting, or sand injected pressure washing to clean and profile the substrate. Chemical degreasers properly used and flushed off the surface may also be required. Often a combination of methods is required to achieve satisfactory results.

Immediately prior to installing the Spec Topping MT, dampen the surface with water. Remove any standing, ponding or puddles of water prior to installation. Substrate should be uniformly dampened. Overly wet or overly dry areas can result in color variation of the finished installation.

Mixing

A 40-pound (18 kg) bag of Spec Topping MT will require approximately 3 quarts (2.8L) of water. For best results, use a 1/2 inch (12.7 mm) drill with a Jiffler type-mixing paddle. Add the measured water to a clean 5-gallon (18.9L) pail. With the mixer running, slowly add the Spec Topping MT powder, mixing until a lump free consistency is obtained. Allow the mixed material to set for approximately 5 minutes, and then re-mix prior to placement. Mix only the amount of material that can be placed within 30 minutes of mixing.

Keep bagged material and mixed material out of direct sunlight for added work time. Use cold water when mixing for added working time. In cooler conditions, use warm water when mixing.

INSTALLATION

Spec Topping MT can be applied by brush, broom, trowel or squeegees. Ideal application temperatures are between 50°F (10°C) and 90°F (32.2°C) for both the substrate and air. When applying in warm conditions, always try to work in the shade or during the cooler time of day. Spec Topping MT is designed to be applied in a thin layer, typically from 1/16 inch (1.58 mm) to 1/4 inch (6.35 mm). Spec Topping MT can be installed up to 1/2 inch (12.7 mm) thick in small areas, however the material will dry slower in these thicker areas. It is recommended to patch depressions deeper than 1/4 inch (6.35 mm) prior to installing the material.

Apply the mixed Spec Topping MT to the prepared, dampened concrete surface by pouring out a ribbon of material along one edge and then spreading the material with a broom, trowel or squeegee over the surface. On porous surfaces, a small amount of material can be broomed over the substrate followed immediately by pouring out additional material over the area, then spreading with a broom, trowel or squeegee. Finish the material with a broom or trowel to desired texture within 5 minutes of application. Conspec Finishing Aid Aquafilm may be used to aid in smooth troweling the surface. Do not use water as a finishing aid. Stage work in small sections, utilizing existing control joints as edge breaks. If work must be stopped within the plane of a slab area, tape can be applied to make a temporary break point. Apply the tape in a straight line across the slab, and then apply the material up to the edge of the tape. Then pull up the tape and install another piece of tape over the edge of the installed material, after it has dried, and begin the new application at the tape edge. This will eliminate overlapping the material.

CURING, STAINING AND SEALING

Spec Topping MT is self-curing under most conditions. Spec Topping MT may be stained using Pro Patina Stain 12-24 hours after application. For added protection and ease of cleaning, Spectrum or Tuff Seal Sealers may be applied 12-24 hours after application.

Clean Up

Clean all tools with water prior to material hardening. Hardened material will require abrasive cleaning measures.

WASTE DISPOSAL

Dispose of waste material and empty packaging in accordance with all Federal, State and Local requirements. Refer to the product's MSDS for further information.

ESTIMATED COVERAGE

30-60 ft² (2.78-5.57 m²) per bag when applied @ 1/8-1/16 inch (3.17- 1.58mm) thickness. Actual coverage will vary

depending on depth of application and texture of substrate.

PACKAGING

ITEM #	Package		Size	
			lb.	kg
126276	Bag	MTR	40	18.1
126275	Bag	MTF	40	18.1

STORAGE

Shelf Life: 1 year from date of manufacture in properly stored, unopened bags. Store in cool, dry environment.

LIMITATIONS

Inconsistent temperature, winds, substrate moisture content and working from sun to shade can cause color variations in the finished installation. Minimum application temperature is 50°F (10°C) for both substrate and air. Do not apply if expected to rain within 8 hours or within 24 hours of freezing temperatures. For application in temperatures above 75°F (23.9°C) use cool mixing water and work in the shade if possible. Limit work to smaller areas. Not for use in submerged areas or in areas subject to hard wheeled traffic. Applications over cracks or joints are subject to re-cracking followed by shear back away from the crack.

PRECAUTIONS

Product contains Portland cement and silica sands. Do not breathe in dust. Use proper dust masks, gloves and goggles when handling, mixing or applying material. Avoid eye and skin contact. Wash exposed skin promptly with water. May cause skin irritation and cement burns. In case of eye contact, flush immediately with water and contact a physician. Read the MSDS prior to use.

MANUFACTURER

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 Technical Services: 877-416-3439
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WARRANTY

Dayton Superior Corporation ("Dayton") warrants for 12 months from the date of manufacture or for the duration of the published product shelf life, whichever is less, that at the time of shipment by Dayton, the product is free of manufacturing defects and conforms to Dayton's product properties in force on the date of acceptance by Dayton of the order. Dayton shall only be liable under this warranty if the product has been applied, used, and stored in accordance with Dayton's instructions, especially surface preparation and installation, in force on the date of acceptance by Dayton of the order. The purchaser must examine the product when received and promptly notify Dayton in writing of any non-conformity before the product is used and no later than 30 days after such non-conformity is first discovered. If Dayton, in its sole discretion, determines that the product breached the above warranty, it will, in its sole discretion, replace the non-conforming product, refund the purchase price or issue a credit in the amount of the purchase price. This is the sole and exclusive remedy for breach of this warranty. Only a Dayton officer is authorized to modify this warranty. The information in this data sheet supersedes all other sales information received by the customer during the sales process. THE FOREGOING WARRANTY SHALL BE EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, AND ALL OTHER WARRANTIES OTHERWISE ARISING BY OPERATION OF LAW, COURSE OF DEALING, CUSTOM, TRADE OR OTHERWISE.

LIMITATION OF LIABILITY

Dayton shall not be liable in contract or in tort (including, without limitation, negligence, strict liability or otherwise) for loss of sales, revenues or profits; cost of capital or funds; business interruption or cost of downtime, loss of use, damage to or loss of use of other property (real or personal); failure to realize expected savings; frustration of economic or business expectations; claims by third parties (other than for bodily injury); or economic losses of any kind; or for any special, incidental, indirect, consequential, punitive or exemplary damages arising in any way out of the performance of, or failure to perform, its obligations under any contract for sale of product, even if Dayton could foresee or has been advised of the possibility of such damages. The Parties expressly agree that these limitations on damages are allocations of risk constituting, in part, the consideration for this contract, and also that such limitations shall survive the determination of any court of competent jurisdiction that any remedy provided in these terms or available at law fails of its essential purpose.