

MICRO TOPPING F

Concrete Re-Surfacing Material

PURPOSE

Micro Topping F is used to re-surface concrete that is worn, pitted or spalled. Micro Topping F can be used interior or exterior over existing structurally sound horizontal concrete surfaces including decks, patios, sidewalks, driveways, casinos, hotels, floors, or most other residential or commercial concrete surfaces. May also be used on vertical concrete surfaces. Micro Topping F is compatible with Symons Liquid Colorants for integral pigmentation and with Symons Patina Stains for producing unique color effects.

DESCRIPTION

Micro Topping F is a cement based, polymer modified decorative concrete topping material. Micro Topping F is a thinly applied topping that closely resembles the look of natural concrete. Micro Topping F can be smooth troweled or broom finished and can be pigmented or stained for a wide array of decorative finishes.

PACKAGING

40-pound (18.1 kg) bags

PROPERTIES

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)

YIELD

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.

APPLICATION

Preparation: Proper and complete substrate surface preparation is critical to the success of the project. The substrate to receive the Micro Topping F 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 Micro Topping F. 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 Micro Topping F over moving cracks or joints can result in cracking and delaminating of the Micro Topping F. Repair non-moving cracks, spalls and delaminated areas with the appropriate epoxy bonder or cement based repair mortar. (Contact Symons 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 Micro Topping F. Once the Micro Topping F is installed a joint will need to be sawed through the Micro Topping F 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 Symons for additional or alternative crack repair methods. When using Symons epoxy for crack repairs, cure times are typically 8 hours. Contact Symons 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 Micro Topping F 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 Micro Topping F. When using concrete or slow set mortars, the cure time is typically seven days. When using Symons 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 Micro Topping F, 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 Micro Topping F will require approximately 3 quarts (2.8L) of water. For best results, use a ½ inch (12.7 mm) drill with a Jiffler type-mixing paddle.

Add the measured water to a clean 5-gallon (18.9L) pail. If adding Liquid Colorant, add that to the water and mix well. Then, with the mixer running, slowly add the Micro Topping F 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.

Placement: Micro Topping F 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.

Micro Topping F is designed to be applied in a thin layer, typically from 1/16 inch (1.58 mm) to ¼ inch (6.35 mm). Micro Topping F can be installed up to ½ 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 ¼ inch (6.35 mm) prior to installing the material.

Apply the mixed Micro Topping F to the prepared, dampened concrete surface by pouring out a ribbon of material along 1 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. Symons Finishing Aid 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

Micro Topping F is self-curing under most conditions. Micro Topping F may be stained using Symons Patina Stain 12-24 hours after application. For added protection and ease of cleaning, Symons Decorative Sealer WB (water base), Symons Decorative Sealer HSN (solvent based) or Symons Decorative Sealer Lacquer Sealer may be applied 12-24 hours after application.

WARRANTY

Symons Corp. 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 Symons, the product is free of manufacturing defects and conforms to Symons' published specifications in force on the date of acceptance by Symons of the order. Symons shall only be liable under this warranty if the material has been applied, used, and stored in accordance with Symons' instructions in this technical data sheet.

The purchaser must examine the product when received and promptly notify Symons in writing of any nonconformity before the product is used, or no later than 30 days after such nonconformity is first discovered. If Symons, in its sole discretion, determines that the product breached the above warranty, it will, in its sole discretion, replace the nonconforming product, refund the purchase price or issue a credit. This is the sole and exclusive remedy for breach of this warranty.

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CLEAN-UP

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

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.

Warning: 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.

SHELF LIFE

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

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