

MICRO TOPPING



Polymer Modified Micro Topping

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www.SureCreteDesign.com
www.TheConcreteWhisperer.com

Technical Data

Coverage (approx.)
40 lb. (18.1 kg) bag
= approx. 200—300 ft.sq. ft. or
(18.6— 27.9 m²) @ 1 coat
(depending upon substrate and
application)

Technical Data

Abrasion Resistance
28 day % loss 500 cycles = <.5%

Tensile Strength
ASTM C-190 28 day = 410 PSI

Shelf Life

Under normal conditions and when kept out of direct sunlight, dry and moisture free, the shelf life of **this product (in a unopened package)** is **(12) months** from the date of purchase. Storage must be under roof and off the floor. Inventory **must be rotated** to maintain product that is within shelf life limits.

Warranty

Generally, **SureCrete** represents and warrants that our products are of **consistent quality**. No other oral or written statement is authorized. Any liability is limited to refund of purchase price, or replacement of product (**if defective**) at manufacturers/ sellers option. The **end user** shall determine product's suitability and assume all risks and liability. SureCrete shall not be liable for cost of labor or direct and/or incidental consequential damages.

DESCRIPTION

SureCrete's **Micro Topping** is an extremely versatile and durable cementitious topping for both interior and exterior concrete surfaces. **Micro Topping** is designed for horizontal surfaces, but may be used on vertical surfaces to create a faux Venetian plaster look. Application is accomplished usually with hand trowel or stand-up "Magic Trowel". **Micro Topping** creates the supremely smooth, tight-trowel finish.

COMPONENTS

Micro Topping is a single component, zero VOC, mix design that requires only the addition of potable water. Since all of the necessary ingredients are pre-blended in the bag it is the ultimate commercial grade, user-friendly, thin troweled overlay. Customarily SureCrete's **Micro Topping** is applied with a single coat. Depending upon the condition of the substrate and the desired finish, an additional coat may be preferred.

SURFACE PREPARATION

The principles for surface preparation for overlays on concrete or other cementitious surfaces remain constant; the substrate must be: **(under most installation situations)*:**

1. **Clean:** The surface must be free of dust, dirt, oil, grease, paints, glues, sealers, curing agents, efflorescence, chemical contaminants, rust, algae, mildew & other foreign matter that may serve as a bond breaker or prevent proper adhesion. To remove coatings, paint, sealers, glue from concrete, etc. you can either accomplish this thru chemical (listed below) or mechanical means!
2. **Cured:** Any cement based surface must be sufficiently cured to have completed hydration: somewhere between 14-28 days depending on temperatures & humidity.
3. **Sound:** No overlay should be placed on flaking or spalling concrete. If the surface is delaminating, or divots are present, then shot blasting, scarifying, or other prepping methods should be used to remove the delaminating areas & then patched.& or **densified!** Cracks will telegraph thru overlays& need to be properly addressed! Also some slabs present special challenges: hydrostatic pressure, efflorescence, dusting, or other contaminants in the matrix. As added insurance, we recommend **LD-1800**.

**(See Tech Sheets) LD-1800: Deep Level: SureBroom: SCT-22:
2 Part- Epoxy crack treatment**

4. **Profiled:** For a proper bond with overlays, the surface of concrete must be opened up (etched) roughed up to feel like sandpaper. This profile may be accomplished by **mechanical means:** shot blasting, scarifying, grinding, power washing etc. For most applications, the most common means of **profiling, cleaning & degreasing** for an all in one product and a safe substitute for muriatic acid is **SCR**.

(See Tech Sheet) SCR

NOTE: As **Micro Topping's** aggregate is extremely fine, holes, spalls, voids, and irregularities should be appropriately treated separately. **SureCrete's SureBroom** is a good choice for patching prior to **Micro-Topping's** smooth coat. Substrate must be 50°F (10°C) and rising before installation. Surface at 90°F (32°C) and above must be cooled before installation. Pre-dampen area with fog tipped sprayer before using, leaving no puddles.

continued

Temperature Ranges & Curing

Installations **should only take place** when air & substrate surface temperatures are between **45° F & 90° F (7-32° C)** If air temperature is expected to **drop below 45° F (7° C)** within 48 hours after placement, then installation is **not recommended!**

Allow product to air cure after application. Care should be taken when weather conditions impart variables that cause the product to dry out too quickly. High heat, sunlight and especially windy conditions, may be detrimental to the proper curing of this product. Attempt to minimize application during such harsh conditions by working during cooler hours, keeping materials shaded prior to mixing and setting up plastic or temporary walls to block wind. **This product (depending on weather conditions)** normally should achieve initial set with-in 8 hours. After sealing allow approximately (24) hours for **foot traffic** & approximately (72) hrs. for **heavy/vehicle traffic**.

APPLICATION

The prepared surface should be dampened: saturated, surface dry (SSD).

1. Add approximately 5—6 qts. (4.7—5.7 L) water to 40 lbs. (18 kg) bag of **Micro Topping**.*
2. Mechanically mix at 450 – 600 rpm to a flow-able consistency in a clean vessel.
3. Batch enough material that can be used in 10 – 20 min. time frame, maintaining a wet edge.
4. Consistency in mixing and application are key to a uniform color palette. When product is dry enough to bear foot traffic, remove trowel tracks or any irregularities with a scraper.
5. When surface is dry enough use of Eco-Stain, chemical (acid) stain, or dyes are applied to create the colored design desired.
6. Once the staining process is complete and the surface is dry, 2 coats of SureCrete sealer such as **Dura-Kote Waterborne Polyurethane** is applied to complete the low VOC flooring system.

**NOTE: If you desire to tint SureCrete's Micro Topping utilize a color pack. One color pack is used to one full bag of Micro Topping, measure color if smaller batches are desired. Mix color pack into the water and mechanically mix until all dry pigment is evenly dispersed (usually 2 minutes). Slowly introduce Micro Topping into the colored water and continue mechanically mixing to a lump free consistency.*