

## DECORATIVE COMPOSITION CEMENTITIOUS FLOOR TRAFFIC COATING SYSTEM

### DESCRIPTION

**Micro-Tek™** Micro-Topping is a single-component polymerized thin-section decorative cementitious coating system available in white and gray. Micro-Tek™ Micro-Topping can give the appearance of smooth concrete while being flexible, resilient and paper thin. Tight, flat surfaces are easily produced in a fraction of the time it may take with standard grouts.

Due to their unique consistency, these surfaces are easy to clean and maintain. They produce an extremely durable, low-cost, yet attractive appearance. Micro-Tek™ Micro-Toppings will accept a limited amount of deflection in the substrate, compensating for concrete movement without sacrificing durability.

Important characteristics of Micro-Tek™ Micro-Toppings are their extraordinary adhesion, coupled with their ability to withstand prolonged pedestrian and vehicular traffic when properly sealed. In these respects the material is far superior to conventional cementitious coatings used to resurface old or worn concrete.

Each application of a Micro-Tek™ Micro-Topping is a unique expression of the installation contracting artist and is not a

manufactured look, but rather a compilation of materials, color, skills and experience that combine to tailor an attractive architectural design accent to compliment any surrounding environment.

### USES

Ideal for use in restoring damaged concrete for application of VIVID™ Acid Stains, QuickDye™ or GraniteLook™. Can also be integrally colored with C-Series™ Liquid Colorants for a clean look.

### ADVANTAGES

- Unlimited colors, design and texture
- Variegated hues, concrete-like look
- Excellent adhesion and weathering resistance
- Long wearing under traffic
- Conventional floor cleaning methods at a lower life cycle cost
- Topping can be buff shined
- Retards water and waterborne salt penetration
- Resists ultra-violet degradation from long-term exposure to sunlight
- Skid resistant underfoot
- Single Component
- Unique designs

## TYPICAL DATA FOR MICRO-TEK™ SG MICRO-TOPPING

(MATERIAL AND CURING CONDITIONS AT 73°F UNLESS NOTED, 50% R.H.)

**Set Time Initial** ASTM C-266 ..... 3 hours  
**Set Time Final** ASTM C-266 ..... 6 hours

**Compressive** ASTM C-579(28 Day) ..... 4097 psi

**Tensile Strength** ASTM C-307(28 Day) ..... 443 psi  
**Tensile Modulus** ASTM C-307(28 Day) ..... 21,154 psi

**Flexural Strength** ASTM C-580(28 Day) ..... 645 psi  
**Flexural Modulus** ASTM C-580(28 Day) ..... 572 psi

**Modulus** ASTM C-580(7 Day) ..... 897 kpsi  
**Modulus** ASTM C-580(28 Day) ..... 833 kpsi

**Flexural Secant Modulus** ASTM C-580(28 Day) ..... 932 kpsi

**Mod Bond Test** ASTM C-932(7 Day) ..... 200 psi  
(Unprimed dry mortar substrate no prep)

**Shrinkage** ASTM C-531(28 Day) ..... 0.19%  
(Curing Conditions 72F, 85% R.H.)

**Shelf Life** ..... 6 months (dry)

**Packaging** ..... 40 lb. (22.68 kg) bags  
60 bags per Pallet

**Colors** ..... Gray, White

### LIMITATIONS

The average typical thickness is approximately 3/32 inch (2.4 mm) and is light in weight at approximately 1.2 lbs per ft<sup>2</sup>. Since most applications accomplish a smooth texture, and must be sealed in order to be integral, they can become

slippery. Care should be taken to be aware of this, or an aggregate should be incorporated onto the seal coat to prevent slipping in areas where water is common, or safety is a concern.



## SURFACE PREPARATION

Surface must be clean and reasonably dry. All crack repair etc, should have taken place prior to pressure washing, scarifying, grinding or shot blasting. Cut new control joints as required to prevent cracks transferring through the overlay. Pressure-wash all dust and latents from the surface to ensure a clean surface. If high temperatures are imminent, the substrate may be misted with water immediately before the installation to cool the concrete.

## MIXING

Each bag of Micro-Tek™ Micro-Topping powder requires 8-10 quarts of water. **Do not add additional polymers!** Pour  $\frac{3}{4}$  of the 8-10 quarts of water into an empty 5-gallon bucket. Add the entire contents of the powder and blend briefly with a drill-powered mixer to wet out the material. Wait 5-10 minutes, and then add the remaining water and mix at medium speed until the material is homogenous and free of all lumps. A mix similar to the consistency of buttermilk is ideal. If desired, any **Concrete Coatings Inc C-Series Colorants** may be added at this time at a rate of  $\frac{3}{4}$ -1 cup per batch. Mix until color is uniform.

## APPLICATION

Micro-Tek™ SG **MUST** be applied over Micro-Tek™ RG or G-100 Pro Series Grout™. Refer to appropriate TDS for installation instructions for these products. Pour  $\frac{1}{4}$  to  $\frac{1}{3}$  of the mix onto the surface. At this point, the material may be applied to large areas using a squeegee to spread the material and finished by hand or “funny trowel”, or simply spread and troweled by hand. In either case, a thin coating is recommended. Material builds over  $\frac{1}{8}$ ” are discouraged. If more build is required, contact Concrete Coatings, Inc. technical support. Let Micro-Tek™ Micro-Topping dry completely and sand the surface between layers, if desired. Remove all dust and debris. For a smooth, power-troweled look, trowel the material near to final thickness and then flat trowel again after a few minutes much like you would regular concrete. Sweat and broom finishes can be accomplished in much the same manner.

**Concrete Coatings, Inc. Micro-Tek™ SG Micro-Topping should be applied prior to staining, sealing and waxing.**

## STAINING

All Concrete Coatings, Inc. Micro-Tek™ Micro-Toppings are compatible with all Concrete Coatings, Inc. VIVID™ Acid Stains and QuickDye™ products. If the surface is to be acid stained, surface **MUST** be sanded, and applying a light mist of water is recommended immediately before stain application using a plastic pump sprayer. **The absolute maximum allowable burn time for VIVID™ Acid Stains applied to Micro-Tek™ Micro-Toppings is 4 hours.**

## SEALING

Although Micro-Tek™ Micro-Toppings are very durable, they must be sealed to maintain their integrity. Allow the overlay to cure for a minimum of 24 hours and protect the surface with SuperSeal™ 2000, GemKote™ 400, GemKote™ 350, GemKote™ 100, UV Shield™, Shield 50™, SuperSeal™ 20WB, SuperGlaze™ 3600 or SuperGlaze WBU. Please consult Concrete Coatings, Inc Technical Support at 800-443-2871 for best sealer options. Apply DuraWax™ to sealed surface for better wear resistance.

## MAINTENANCE

The sealed surface should be inspected periodically for areas of thin or traffic-worn sealer. Worn areas may be resealed as needed. A thorough cleaning is recommended prior to resealing to ensure debris or contaminants are not embedded in the subsequent sealer coat(s). Concrete Coatings, Inc. DuraWax™ is suggested as a sacrificial coat on a sealed surface. DuraWax™ may be re applied as needed.

## COVERAGES

One bag of Concrete Coatings, Inc. Micro-Tek™ Micro-Topping (SG) will cover approximately 150-400 ft<sup>2</sup> depending on actual application.

“Concrete Coatings Inc. warrants its products to be free of manufacturing defects and that they will meet Concrete Coatings Inc. current published physical properties when applied in accordance with Concrete Coatings Inc. written directions and tested in accordance with ACI, ASTM and Concrete Coatings Inc. Standards. There are no other warranties by Concrete Coatings Inc. of any nature whatsoever, expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. Concrete Coatings Inc. shall not be liable for damages of any sort, including remote or consequential damages, resulting from any claimed breach of any warranty, whether expressed or implied, from any other cause whatsoever. Concrete Coatings Inc. will not be responsible for use of this product in a manner to infringe on any patent held by others. User assumes all liability and risk associated with use, selection, application and warranty of product. Concrete Coatings Inc. makes no representation as to the suitability of product for any application and/or damages of any kind directly or indirectly associated with its selection or application. ”

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