



# MiraTop TG

## Product Technical Data Sheet

**MiraTop TG** is a state-of-the-art, three-component, urethane-modified cementitious, trowel-grade flooring system designed for seamless monolithic applications from 1/4" (6.3mm) to 3/8" (9.5mm) thickness when fast return-to-service is required in demanding and harsh exposure conditions. **MiraTop TG** exhibits outstanding impact, chemical, and abrasion resistance, and offers superior performance in conditions where thermal shock, high heat, wet environments and the presence of elevated levels of moisture vapor

transmission rates may cause many other types of flooring systems to fail.

**MiraTop TG** is ideal for use on both new and existing concrete surfaces where restrictions on down time demand a rapid return to service upon completion of the work. **MiraTop TG** is a fully reacted urethane mortar system that is non-flammable and nearly odorless during placement and cure, and can be subjected to abusive vehicular traffic within 24 hours of placement.

Depending on specific service and exposure conditions, other **MiraFlor** resinous clear topcoats are available to enhance appearance, chemical resistance and abrasion resistance or other physical properties. Contact a local Miracote representative for the most appropriate **MiraFlor** coating among which includes novolac epoxy, polyurethane, polyaspartic or polyurea technologies.

### WHERE TO USE

- Production facilities.
- Food processing plants.
- Chemical processing areas.
- Pharmaceutical plants and warehouses.
- Commercial kitchens.
- Cleaning and sanitation areas.
- Beverage and bottling plants.
- Chillers and freezers.
- Water and wastewater treatment facilities.

### ADVANTAGES

- Tenacious adhesion to concrete and most substrates.
- Excellent chemical and abrasion resistance.
- Displays outstanding resistance to thermal shock.
- LEED-compliant, low odor and fast cure time.
- Meets USDA, FDA, OSHA requirements.
- Does not support microbial growth.
- Very rapid cure and minimal down time.

### THEORETICAL COVERAGE RATES

21 sq. ft. @ 1/4" (6.4mm)

14 sq. ft. @ 3/8" (9.5mm)

### PACKAGING and COLORS

Kit Size:

Component A: 1-gal unit

Component B: 1-gal unit

Component C: 47 lb. bag powder

Available in Gray, Red, and Neutral powder

Neutral powder may be pigmented with ColorPax W (4 oz./unit)

### MIX RATIO

Designed and packaged for mixing full kits only.

### SHELF LIFE AND STORAGE

One year from the date of manufacture as long as containers remain unopened and material is stored in a protected environment free from moisture, excessive heat, freezing temperatures, and direct sunlight.

### TYPICAL PHYSICAL PROPERTIES @ 75°F (24°C)

**Compressive Strength** ASTM C579, minimum ..... 8,100 psi

**Tensile Strength** ASTM C307, minimum..... 1,000 psi

**Flexural Strength** ASTM C790, minimum..... 2,000 psi

**Hardness** ASTM D2240, Shore D .....85-90

**Thermal Coefficient of Linear Expansion**.....1.1X10<sup>5</sup>  
ASTM C531

**Density** ASTM C905, lbs./ft<sup>3</sup>..... 130

**Water Absorption**, MIL-D-3134.....0.64%

**Flammability** ASTM E648..... >1.07 watts/cm<sup>2</sup>

**Adhesion** ASTM D4541.....>400 psi  
(100% percent failure in concrete)

**Temperature Distortion**..... Crossfield Lab Passes  
(dry, wet and oil at 325°F or 163°C)

**Microbial Resistance** ASTM G21 ..... Passes Rating 1

**Chemical Resistance** .....See Chemical Resistant Chart

### OVERVIEW OF INSTALLATION STEPS

- **Surface Preparation** – All surfaces must be clean, sound, dry and free from any bond inhibiting substances including, but not limited to, grease, oil and any other contaminants or loosely adhered materials. For concrete substrates, a minimum surface profile of a CSP-3 or higher is required depending on overall substrate conditions and coating requirements.

- **Mixing** – **MiraTop TG** components must be mixed mechanically using a low-speed drill (300-450 rpm) with a "Jiffy-type" or similar Miracote-approved mixing paddle until fully blended. Empty entire contents of component A and component B into a clean mixing vessel. Mix with appropriate size paddle for approximately 3 minutes keeping the mixing head fully immersed at all times. At least

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### OVERVIEW OF INSTALLATION STEPS (continued)

once when mixing, stop to scrape down the sides and bottom of the pail to ensure thorough blending of both components. Pour mixed urethane resin into a larger vessel. While gradually adding 42 lbs. of Component C aggregate, mix resin and aggregate with a larger paddle for approximately 3 minutes or until well blended. Once completely mixed and in observance of pot life, dispense material immediately from the pail to the substrate.

**Application** – Pour out mixed *MiraTop TG* in a long thin ribbon across the concrete surface or other type of substrate. Spread evenly with a gauge rake or trowel, and always work material into a wet edge. Quickly work out gauge rake lines and ridges with a loop roller exercising caution to avoid whipping air into the urethane cement matrix. After 3 to 5 minutes, use a spike roller to ease surface tension, and release of entrapped air from the *MiraTop TG* matrix.

### FOR BEST RESULTS

- Always install a minimum 4' by 4' test area site mock up for approval of acceptable color, texture, finish, adhesion, and any other critical requirement acceptable to the owner prior to proceeding with the installation.
- Verify and download current versions of product technical data sheets (PTDS), material safety data sheets (MSDS), and installation guides (IG) at [www.miracote.com](http://www.miracote.com).
- Protect materials at all times from excessive heat and cold, and pre-condition to room temperature as necessary.
- Regularly check wet film thickness with mil gauge and monitor consumption to ensure correct application rates are obtained.
- The proper application of this product is the sole responsibility of the end user. Job site visits by Miracote representatives are only for the purpose of making recommendations, and do not assume any liability for supervision or quality control.
- Measure surface and ambient temperatures to ensure the material is only applied when temperatures are 45 F and rising during placement and cure time.

### LIMITATIONS

- Extremely porous substrates may require a primer to reduce outgassing and pin-holing.
- Not intended for use over flexible substrates.
- Minimum ambient/substrate temperature of 45F.

### LIMITED WARRANTY

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**CAUTION: ALWAYS KEEP OUT OF THE REACH OF CHILDREN.**



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