



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.

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.
- Healthcare

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 (0.535 gallons)

Component B: 1-gal unit (0.450 gallons)

Component C: 44 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. **Do Not Split**

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 ⁵ ASTM C531
Density ASTM C905, lbs./ft ³	130
Water Absorption , MIL-D-3134	0.64%
Flammability ASTM E648.....	>1.07 watts/cm ²
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) until blended with a “Jiffy-type” or similar Miracote-approved mixing paddle. Empty entire contents of the pre-mixed component A into a clean mixing vessel while scraping the sides and bottom to capture entire contents. If utilizing Neutral powder and ColorPax-W to replicate a standard MiraTop color proceed with blending the pigment into the A component. Then add Component C powder and thoroughly mix for 60 seconds into a smooth, lump-free consistency being careful not to entrap air into the mix. Next empty entire contents of pre-mixed Component B capturing entire contents by scraping the side and bottom and continue mixing for an additional 90 seconds. Immediately dispense the mixed **MiraTop SL** from the pail to the substrate.

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OVERVIEW OF INSTALLATION STEPS (continued)

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 mockup 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.
- 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.
- *MiraTop SL* is not considered an aesthetic system without subsequent broadcast of quartz or flake.
- Concrete surface repairs, leveling, sloping, repair and isolation of existing cracks, or other supplementary work items may be required to complete to ensure a proper installation.
- The final appearance of the completed MiraTop SL system may vary from the submitted color charts, samples, and mock-ups due to fluctuating project conditions at the time of application.

LIMITED WARRANTY

NO WARRANTY SHALL BE EFFECTIVE UNTIL THE TERMS AND CONDITIONS OF SALE SET FORTH IN CROSSFIELD PRODUCTS CORP. INVOICES ARE MET.

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CAUTION: ALWAYS KEEP OUT OF THE REACH OF CHILDREN.



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