



MiraTop SL

Product Technical Data Sheet

MiraTop SL is a state-of-the-art, three-component, urethane-modified cementitious, self-leveling flooring system designed for seamless monolithic applications from 3/16" (4.7mm) to 1/4" (6.3mm) thickness when fast return-to-service is required in demanding and harsh exposure conditions. *MiraTop SL* exhibits outstanding impact, chemical, and abrasion resistance, and offers superior performance in conditions where thermal shock, high heat, wet environments and exposure to elevated levels of moisture vapor

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

MiraTop SL 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 SL* 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.

If desired, *MiraTop SL* can be broadcasted with decorative quartz aggregate and vinyl flakes for enhanced appearance and slip resistance. Depending on specific service and exposure conditions, other MiraFlor resinous clear topcoats are available to provide advanced chemical resistance and abrasion resistance or other physical properties. Available product technologies include novolac epoxy, polyurethane, polyaspartic or polyurea formulations.

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

Per 2-Gal Kit:

40 sq. ft. @ 3/16" (4.7mm)

30 sq. ft. @ 1/4" (6.3mm)

PACKAGING and COLORS

Kit Size: 2-Gal and 4-Gal Kits

Component A: 1-gal unit, 2-Gal unit

Component B: 1-gal unit, 2-Gal unit

Component C: 47 lb. bag powder

Available in Gray, Red, and Neutral powder

ColorPax W (4 oz./unit) is used to pigment Neutral MiraTop SL

Factory pigmentation available (minimum order quantity required)

MIX RATIO

Designed and packaged for mixing full kits only.

1 bag of powder per 2-Gal of mixed A and B.

SHELF LIFE AND STORAGE

One year from the date of manufacture provided 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, 6,000 psi

Tensile Strength ASTM C307, 1,000 psi

Flexural Strength ASTM C790, 2,000 psi

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

Thermal Coefficient of Linear Expansion ASTM C531...1.5X10⁵

Density ASTM C905, lbs./ft³.....130

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

Flammability ASTM E648>1.07 watts/cm²

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

Temperature DistortionCrossfield Lab Passes
(dry, wet and oil at 325°F or 163°C)

Microbial Resistance ASTM G21Passes 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 SL* 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 component A and component B into an appropriate size clean mixing vessel and blend well. When using neutral powder add the pigment into the A component first and blend for 15-30 seconds. Add the B component to the mix and blend for another several seconds until pigment is evenly dispersed. Gradually add the entire bag of Component C aggregate into the liquid mixture and blend for approximately 2 minutes the mix is thoroughly wetted out into a uniform blend. Immediately dispense the mixed *MiraTop SL* from the pail to the substrate.

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OVERVIEW OF INSTALLATION STEPS (continued)

Application – Immediately after mixing spread the mixed *MiraTop SL* slurry into long ribbons across the concrete substrate working quickly. Spread evenly with a gauge rake or trowel at the desired thickness and exercise caution to help minimize leaving behind gauge rake lines. Always maintain a wet edge when placing down ribbons at abutting edges to help avoid ridges and lines in the finished surface. Using a porcupine roller quickly backroll the *MiraTop SL* to ease surface tension and level out gauge rake lines. A few minutes following porcupine rolling, run a loop roller across the *MiraTop SL* perpendicular to the gauge rake lines to further smooth out the floor.

Optional: Broadcast Media: Following loop rolling broadcasting color quartz, vinyl flakes or silica sand may proceed. Broadcast media in a rainfall pattern over the *MiraTop SL* to ensure a smooth and even broadcasted surface. Continue to broadcast to refusal which is achieved when there are no visible glistening wet areas observed. Allow broadcasted coat to cure for 6-8 hours then sweep and vacuum excess media.

Lock/Seal Coat: When mixed pour out epoxy or other resinous lock/seal coat of choice in a ribbon across the broadcast media surface and spread the material evenly with a flat squeegee to ensure consistent millage uniformity. Finish by back-roll using a 1/4" maximum nap roller.

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.
- 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 ambient temperature to ensure the material is only applied between a minimum of 45° F and a maximum of 90° F during placement and cure time.
- Measure substrate temperature to ensure the material is only applied between a minimum of 50° F and a maximum of 90° F 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.

LIMITED WARRANTY

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CAUTION: ALWAYS KEEP OUT OF THE REACH OF CHILDREN.



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