



MiraStamp

Product Technical Data Sheet

Miracote MiraStamp basecoat is a polymer modified, two- component cementitious, thin-stamped overlay applied in conjunction with color, stains and sealers to produce decorative Architectural paving finishes. Miracote MiraStamp has very high compressions strength and is suited for continued exposure to commercial vehicular and pedestrian traffic.

The system consists of a wet primer application, basecoat latex-modified mortar pigmented with Miracote Liquid Pigment, MiraStamp LR, available Miracote Stains, and Miracote protective clear sealers and topcoats. Available sealers are designed for various conditions and traffic. Most all available stamps can be used with the MiraStamp system with little or no modification to traditional stamping techniques used to produce a number of attractive patterns. MiraStamp Architectural paving system is installed as a 1/4" to 5/8" decorative overlayment.

ADVANTAGES

- Freeze-Thaw Resistant: water retardancy prevents cold weather scaling
- Simple to use: Pre-Portioned mixing
- Polymer-Fortified: Self curing and superior adhesion
- LEED (Leadership in Energy and Environmental Design) Credit eligible
- Available in standard and customer colors
- High Compressive Strength
- Eliminates the need for concrete removal
- Low maintenance cost
- Available through Miracote distributors

COVERAGE RATES

Theoretical coverage or yield per unit: 18 sq. ft. at 1/4 inch
(One Unit is 1-bag MiraStamp Powder and 1-gallon MiraStamp Liquid)

Actual consumption rates are dependent on many factors including, but not limited to, substrate texture and porosity, variations in applied thickness and normal allowance for waste.

PACKAGING and COLORS

MiraStamp is a two component unit, packaged as follows:

- Liquid: 5-gallon pail
- Powder: 45-pound bag (white)

Refer to any Miracote Color Chart for standard color selection. Custom Colors are available too.

MIX RATIO

Add one ColorPax LIP container to a 5-gallon pail of MiraStamp Liquid. Then add a 45-pound bag of MiraStamp Powder.

SHELF LIFE AND STORAGE

Shelf life will be one year from the date of manufacture as long as containers remain unopened and when material is store in a protected environment that is free from moisture, excessive heat and freezing temperatures, and direct sunlight.

WHERE TO USE

- Interior/Exterior applications
- Restaurants
- Pedestrian and Vehicular traffic surfaces
- Courtyards
- Driveways
- Pedestrian Bridges
- Balconies
- Pool Decks
- Lobbies
- Entryways/Foyers
- Plaza Decks
- Theme Parks
- Breezeways

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

Compressive Strength ASTM C109	4,200 psi
Indentation Characteristics (Steadily Applied Load).....	2.26%
MIL-D-3134, Para. 4.7.4.2.1 (2,000 lbs. on 1" steel Ram imposed for 30 mins.)	
Adhesion MIL-D-3134, Para. 4.7.14.....	305 psi
(Shear from steel plate after 96 hours)	
Water Absorption MIL-D-3134	3.41%
Tensile Strength ASTM C190.....	925 psi
Flexural Strength ASTM C580	2,415 psi
Impact Resistance (Gardner Impact Tester)	No chipping, Cracking or delamination and not more than 0.014"

FOR BEST RESULTS

- Always install a minimum 4' by 4' test area or job site mock up for owner approval of acceptable color, texture, finish, adhesion, and any other critical requirements prior to proceeding with the installation.
- Verify that the most current versions of product technical data sheets (PTDS), material safety data sheets (MSDS), and installation guidelines (IG) are being utilized for project submittals and installation reference.
- Protect materials at all times from excessive heat and cold.
- Regularly check wet film thickness with mil gauge and monitor product consumption to ensure correct application thicknesses 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. Supervision and quality control are the sole responsibility of the user.
- Measure surface and ambient temperatures to ensure that material is only applied when temperatures are 40 F (4.5 C) and rising during placement and cure time and not to exceed 100 F.

OVERVIEW OF INSTALLATION STEPS

- **Surface Preparation** - MiraStamp must be applied to a clean, sound mechanically prepared concrete substrate, as per ICRI's Tech Guide No. 03732, "Selecting and Specifying Concrete Surface Preparation". The surface must be free from any bond inhibiting substances including, but not limited to, grease, oil and any other contaminants or loosely adhered materials. A minimum surface profile of a CSP-4 or higher is required depending on overall substrate conditions and coating requirements. Concrete and other porous or absorptive substrates should be (SSD) saturated surface dry with no standing water at the time of the MiraStamp application to the substrate.
- **Mixing** - MiraStamp must be mixed mechanically using a high-speed drill with a "Jiffy-type" or similar Miracote-approved mixing paddle in a clean mixing container, or a concrete mixer for larger applications. Pre-mix MiraStamp Liquid first to re-disperse any polymer solids that may have settled on the bottom of the pail. Add 1 bag of MiraStamp Powder to 1 gallon of MiraStamp Liquid. Mix for approximately 2 minutes, making sure not to entrain air into the material. Thoroughly mix the MiraStamp until a uniform smooth consistency is achieved that is free of lumps and pockets of dry powder.

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OVERVIEW OF INSTALLATION STEPS (Continued)

- **Application**
 - Prime the surface using MiraPrime Universal Mix
 - Apply MiraStamp into a wet prime coat.
 - Pigmented MiraStamp is placed on the surface with a gauge rake.
 - Apply MiraStamp LR Agent onto both the MiraStamp and the stamping tools
 - A colored dry powder may be mixed with the release agent to accent the MiraStamp.
 - Carefully place the stamps over the MiraStamp. Specially designed flexible stamps may be required for edge work.
 - Allow the release agent to evaporate.
 - When the MiraStamp is dry, choose any Miracote Stains to achieve desired variation and color.
 - For suggested interior/exterior sealers, please refer to Miracote's sealer selector guide.

LIMITATIONS

- Do not apply over moving cracks as they will reflect through.
- If sub-surface cracks after the coating has been applied, those cracks may also reflect through.
- Do not apply over working joints, expansion joints, or construction joints. These must be saw-cut and filled with an approved sealant.

PRODUCT AVAILABILITY

Crossfield Products Corp. Miracote maintains offices and factories at addresses listed below. Miracote products are available for purchase through reputable distribution in the building trades.

MAINTENANCE

For maximum sheen and cleanability, floor should be routinely treated with conventional maintenance finish followed by ordinary buffing.

CLEANING

Cleaning and disinfecting compounds and cleaning techniques can affect the color, gloss, texture and performance of the system. As a precautionary step, Crossfield recommends that the end-user test their cleaning and disinfecting compounds on a sample or on a small, out of the way finished area, utilizing the intended cleaning technique prior to cleaning the entire surface area. If no deleterious effects are observed, the procedure can be continued. If the cleaning and disinfecting compounds or cleaning techniques damage the system, modification of the cleaning material or techniques will be required. Contact your Representative for additional information.

SPECIFICATION ASSISTANCE

Consult Crossfield Products Corp. for specification assistance, detailing, etc. This consultation is highly recommended prior to specification.

TESTING

The technical data contained herein is the result of tests made in Crossfield's laboratories or in independent laboratories using small scale equipment, following generally accepted trade practices. Although this information is believed to be true and accurate, the use of different equipment for testing under dissimilar conditions or the testing of samples produced under dissimilar conditions may develop substantially different results.

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CAUTION: ALWAYS KEEP OUT OF THE REACH OF CHILDREN.



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