



MIRACOTE® MIRASTAIN II BASE

for field mix to formulate MIRASTAIN II

1. PRODUCT DESCRIPTION

A. COMPOSITION

Mirastain II Base is a co-polymer and water-based carrier concentrate solution designed to be field mixed to formulate an Architectural Accent Stain to color surfaces of many poured-in-place cement, mortar or concrete construction materials. Mirastain II base dilution is achieved by adding a Miracote high-grade Colorpax-LIP dispersion and a specified proportion of a specified grade of a safe solvent to the Mirastain II Base. The derivative product known as Mirastain II is a co-polymer and water-based carrier solution specifically formulated to penetrate concrete, masonry and polymeric enhanced cementitious surfaces to provide color tinting or staining of the surface. Mirastain II is designed to accept most water-based sealers and is specifically formulated to accept Miracote's water-based HDWB clear acrylic in water solution; Mirapoxy WB, water-based clear epoxy; ML Primer, water-based epoxy; and Mirathane WB. Also, CQ Clear Epoxy, a high solids clear two-component epoxy; or Mirathane APU 100, a high-solids clear aliphatic two-component polyurethane, are often applied as a protective finish on decorative flooring applications. Mirastain II yields a flat luster, which can be enhanced with Gloss, Matte or Satin sealers as desired.

B. TYPICAL USES

Mirastain II is recommended for use over concrete. Miracote Concrete Multi-Purpose Coatings, Mirastamp Systems, Miracote Micro-Toppings, Microtopping DP, and can be applied over most cement based self-leveling systems, masonry and polymer modified cementitious substrates when a flat Architectural accent color is desired to provide a vibrant, translucent color tint that transforms any surface into enhanced intricate designs and décor. For added diversity, Mirastain II can be applied over integrally colored substrates or substrate that have received chemical reactive staining to further develop accent color or variegation. Simultaneous application of multiple color tints can yield many interesting tones and mottled effects. Mirastain II, however, will deliver relatively consistent results over Miracote Micro-Topping or Miracote Mirastamp applications because the substrate materials are factory controlled.

C. ADVANTAGES AND LIMITATIONS

ADVANTAGES:

1. LEED (Leadership in Energy and Environmental Design) Credit Points may be available under 5 different Classifications
2. Does not contain chemicals targeted by Green Seal Standard GS-11 and LEED-CS as unacceptable.

3. Safe to handle using conventional protection.
4. Easy to clean using water and soap.
5. Can be rolled, sprayed, sponged or ragged.
6. Excellent resistance to most solvent-in-solution sealers (check with Miracote for recommended sealers).
7. UV stable colors: specially formulated high-grade pigment dispersion.
8. Application on interior or exterior surfaces.
9. Color is topical, so there is no reaction with substrate elements to alter color or change profile.
10. No residue to clean up, carrier dissipates and is safe in the atmosphere.
11. Does not require rinsing or neutralization before application of sealer.
12. Available in all Miracote standard and custom colors. In field variation and flexibility, both dilution and pigment concentration can be adjusted.

LIMITATIONS:

1. Must be applied to clean dry substrates.
2. Need to confirm compatibility with sealer.
3. As with all color stains, results will vary over various substrates.
4. Use of sealer required to protect color, provide durability and afford chemical resistance.
5. Shake container prior to use.
6. In-field color application depends on the selected pigment for performance, and UV stability. Consult Miracote for best results.
7. Limited Warranty applies to Mirastain II Base only and does not apply to the field mixed formulation.

2. TYPICAL PHYSICAL PROPERTIES at 75°F (24°C)

- A. **Vehicle Type**.....Acrylic polymer emulsion
- B. **Pigment Class**..... UV stable pigment dispersion
- C. **Polymer**Promotes adhesion to concrete surfaces
- D. **Sheen**Matte
- E. **Drying time** Estimate minimum 4-6 hours before sealer application
- F. **Flash Point** >220°F

3. INSTALLATION

Mirastain II is available in one or five gallon short-filled containers, to accommodate addition of ColorPax LIP (or ColorPax W), and isopropyl alcohol, on the job-site. Apply Mirastain II to the surface as required. Mix with a high-speed drill and a jiffy paddle while adding LIP and isopropyl alcohol. While wet, the stain can be rolled, sponged or ragged to create many custom color designs and effects. Multiple Mirastain II

combinations applied in tandem create infinite variegated color results and effects. Mirastain II can be diluted with water for lighter intensity.

Mirastain II can be sealed soon after drying, usually after six to twenty-four hours, at or above 75°F and RH below 80. Mirastain II applications will not require rinsing before application of sealer.

Caution: Always create pre-job samples and mock-ups on substrates that are similar to the actual application. Always seal sample with the intended sealer to best assure similar results on the job. Application rate varies with substrate; a safe number is 200 feet per gallon for estimation purposes. **Note:** All substrates must be fully cured (concrete, to a minimum of 28 days, other substrate systems per manufacturer's recommendations) and must be clean and free of all debris or materials that might affect the result of the stain. Assure the surface is free of sealers, curing compounds, hardeners or release agents that can interfere with the performance of stains. Most self-leveling overlay applications will require aggressive sanding and can also require a grout of MPC to hold Mirastain II, especially if the surface density will not allow for penetration of the stain. As always, it is required to produce a sample mock-up of each application to best predict anticipated results.

4. PRODUCT AVAILABILITY

Crossfield Products Corp. maintains offices and/or factories at all addresses listed below. Factory Trained Contractors are established in all major trading areas in the United States, Canada and various European, Latin American and Far East nations.

5. 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.

6. MAINTENANCE

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

7. SPECIFICATION ASSISTANCE

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

8. 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.

LIMITED WARRANTY

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

Crossfield Products Corp. warrants to the purchaser of its products that such products are free from manufacturing defect. Crossfield does not warrant or guarantee the workmanship performed by any person or firm installing its products. Crossfield's obligation under this warranty is limited solely to the original purchaser and solely to the remedy of replacement in kind of any product which Crossfield sold which may prove defective in manufacture within one year from date of installation, provided said product was stored correctly and installed within the product's shelf life, by the original purchaser and which Crossfield's examination shall disclose to Crossfield's satisfaction to be thus defective.

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CAUTION: ALWAYS KEEP OUT OF THE REACH OF CHILDREN.



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