



# Product Information Sheet

## MIRACOTE<sup>®</sup> MIRASTAMP

### Polymer Modified Cementitious Architectural Overlayment

#### 1. PRODUCT DESCRIPTION

##### A. COMPOSITION

Mirastamp basecoat is a polymer modified two-component cementitious, thin-stamped overlayment applied in conjunction with intragrual and topical colors, stains and sealers to produce decorative architectural paving finishes. Mirastamp has very high compressions strength and can be exposed to commercial traffic.

The system consists of a wet primer application, basecoat latex-modified mortar pigmented with Miracote Liquid Pigment, Miracote liquid release, optional pigmented dry powders, available Miracote colored stains, and Miracote protective clear sealers "Miraseal" water-based of heavy Duty HD II acrylic in solvent solution. Available sealers are designed for various conditions and traffic. Many 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 typically installed as a 1/4" (6.35mm) to 5/8" (15.88mm) decorative overlayment.

##### B. TYPICAL USES

Mirastamp is a very decorative profiled overlayment, which looks like stamped concrete and functions as a tough concrete-like surface. It can be specified wherever a stamped look is desired where concrete is already in place. Mirastamp offers a good solution for interior as well as exterior applications. Mirastamp can be installed over many of the Miracote Waterproof Membrane systems to provide a composition waterproof decorative stamped floor finish. Modified using the Miracote Miraflex II compliant reinforced base mortar and membrane. Mirastamp can be installed as an exterior deck system. Mirastamp affords placement of concrete in areas during construction when a stamp look is desired, without actually stamping the concrete at the time of placement. This eliminates the need to invest in protection of the surface and damage from construction related traffic. Mirastamp installs quickly and can be planned for installation at the same times all other floor coverings and finishes are placed in a structure.

##### C. ADVANTAGES AND LIMITATIONS

###### ADVANTAGES:

1. High build decorative floor system.
2. Uses liquid release agent.
3. Available in many standard colors.
4. Can be accented with dry of liquid pigments (pigments can be mixed in with the liquid release agent)
5. Can be chemically stained.
6. Low maintenance cost.
7. Finish can be buffed to retain a high sheen.

8. Freeze-Thaw Resistant: water retardancy prevents cold weather scaling.
9. Simple to use: Pre-portioned mixing.
10. Polymer-Fortified: Self-curing and superior adhesion.
11. High Compressive Strength.

###### LIMITATIONS:

1. Concrete substrate cracks can reflect through finished application. Cannot be installed over moving cracks, working joints or expansion joints.
2. Drying time is about 8 hours per 1/4" thickness. Keep temperatures above 55°F (12°C) for fastest cure.
3. Moisture vapor transmission (MVT) in excess of 4.5 lbs./1000 sq/ft/per 24 hr. period per ASTM F1869, may result in delamination, discoloration or improper curing. Use Miracote MVERS™ Primer vapor control membrane over substrates, which have MVT emissions that exceed these limits. Consult with Crossfield prior to using MVERS Primer if moisture vapor transmission exceeds 15 lbs/1000 sq/ft/per 24 hr period per ASTM F1869.

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

- |  |           |
|--|-----------|
| A. Compressive Strength ASTM C109  | 4,219 psi |
| B. Indentation Characteristics<br>(Steadily Applied Load)  | 2.26%     |
| MIL-D-3134, Para. 4.7.4.2.1 (2,000 lbs. on 1" steel<br>Ram imposed for 30 mins.)                               |           |
| C. Adhesion MIL-D-3134, Para. 4.7.14<br>(Shear from steel plate after 96 hours)                                | 305 psi   |
| D. Water Absorption MIL-D-3134   | 3.41%     |
| E. Tensile Strength ASTM C190  | 925 psi   |
| F. Flexural Strength ASTM C580   | 2,415 psi |
| G. Impact Resistance (Gardner Impact Tester) No chipping,<br>cracking or delamination and not more than 0.014" |           |

**Note:** Efflorescence can develop as a result of the migration of water and can result in the failure of substrate or bond or discoloration of the surface.

#### 3. INSTALLATION

- A. Miracote Installation Guideline ICH 563 describes installation procedure, substrate preparation, tools, equipment and materials required or recommended.
- B. Mixing/Volume - Miracote Mirastamp basecoat screed consists of Mirastamp Liquid Polymer (5 gal. pails), Liquid Color IP Pack (pint plastic bottles) and Dry Mix (45 lb. Bags). One IP Pack is mixed with one pail of Liquid Polymer. The mixed polymer is then blended with the Dry Mix at one gallon (1 GL) to one 45-lb. Bag. Release agent is a single component spray grade liquid material. Available sealers are single or two component materials.

- C. Surface Preparation - Concrete, new or old, to be cleaned. All grease, paint, curing agents, or loose concrete patches and droppings to be removed. Mechanical bead-blasting is recommended.
- D. Priming - Prime surfaces to be covered with a liberal brush coat of Miracote Mirastamp Primer mix. The first prime coat is allowed to dry. A required second primer mix is then applied. Mirastamp Basecoat must be applied over second prime coat while the prime coat remains wet.
- E. Application - the procedure for installing Mirastamp Systems is as follows:
  1. Prime the surface using Mirastamp Primer Mix
  2. A primer wetting mix is applied just prior to basecoat screed.
  3. Pigmented Mirastamp base mortar blend is placed by screed.
  4. Apply Miracote Release Agent onto both the Mirastamp base mortar and the stamp tool.
  5. A colored dry powder may be mixed with the release agent to accent the basecoat Mirastamp screed.
  6. Carefully place the stamps over the Mirastamp screed. Specially designed flexible stamps may be required for edge work.
  7. Allow the release agent to evaporate.
  8. When dry, colored chemical stains may be applied.
  9. Apply a clear sealer after preparing the surface.

**4. PRODUCT AVAILABILITY**

Miracote Products/Systems are available from Authorized Miracote Distributors or from Crossfield Products Corp.

**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.

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



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