



Product Technical Data Sheet

MIRACOTE[®] ML PRIMER

1. PRODUCT DESCRIPTION

A. COMPOSITION

Miracote ML Primer is a two component, water-based epoxy primer designed as an adhesion promoter. ML Primer functions as a penetrating/breathing primer, which ties physically into concrete by penetrating up to 300 microns.

B. TYPICAL USES

Miracote ML Primer is used to seal new or existing concrete, prior to the application of polymeric flooring, polymeric decking or conventional flooring products.

C. ADVANTAGES AND LIMITATIONS

ADVANTAGES:

1. Excellent adhesion and flexibility.
2. Reduces negative effect of Moisture Vapor Transmission in concrete.
3. Reduces installation time (fast setting).
4. VOC Compliant.
5. Low odor.
6. Tools can be cleaned with water.

LIMITATIONS:

1. 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.
2. Not recommended for Solvent-based Topcoats.

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

| | |
|---|-------------------------|
| A. Adhesion to Concrete | >500 psi |
| B. % Non-volatiles (by weight) | 39.1 |
| C. Mixing Ratio A to B (by volume) | 2:1 |
| D. Weight % Solids | 39.1 |
| E. Density | 8.7 |
| F. Vehicle Solids | 39.1 |
| G. Pot Life | 4.0 hours |
| H. Re-coat Window for Water-Based Topcoat | 0 to 24 hours |
| I. Re-coat Window for 100% Solids Topcoat | 4 to 24 hours |
| J. Gloss | 100 |
| K. Pencil Hardness | 6H |
| L. Direct Impact | 25 in/lbs |
| M. Reverse Impact | 25 in/lbs |
| N. Taber Abrasion | 170 mg loss |
| O. Chemical Resistance | Call for separate chart |

3. INSTALLATION

- A. Shot-blast and clean all concrete surfaces removing grease and loose debris.

- B. If concrete surface is damp, remove puddles, but leave concrete damp for ML Primer application.
- C. Mix A or B components of ML Primer together.
- D. Apply ML Primer in a thin film with a short nap roller (1/4" nap roller). Do not build film of the primer, but roll out so that it soaks into the surface. Two coats of primer may be necessary on porous surfaces to insure uniform coverage.
- E. When primer turns from cloudy to clear, it is possible to apply a water-based topcoat.
- F. If applying a 100% solids epoxy topcoat, allow ML Primer to cure for four hours minimum before applying topcoat. Do not exceed 36 hours on the re-coating of the ML Primer. If 36 hours is exceeded, an additional application of ML Primer is required. 6 to 24 hours is the optimum re-coat time.
- G. Depending on the porosity of the concrete, the coverage rate of ML Primer is between 325 and 375 square feet per gallon for one coat. Over extremely porous surfaces, a second coat may be necessary.

CAUTION: Carefully read and follow instructions on MSDS.

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.

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CAUTION: ALWAYS KEEP OUT OF THE REACH OF CHILDREN.



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