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MIRACOTE

Product Technical Data Sheet

REPAIR MORTAR I (RM I)

PRODUCT DESCRIPTION

Miracote Repair Mortar I is a polymer-modified two-component smoothing and resurfacing compound for concrete floors and decks. Applied to any thickness from 3" to featheredge with superior adhesion to prepared substrates. Miracote Repair Mortar I has very high compression strength and it can be left exposed to industrial-type traffic or covered with almost any type of floor covering – carpet, resilient tile, even the very hard troweled resin floor systems.

Compared to conventional concrete toppings, Miracote Repair Mortar I has greatly improved adhesion, greater abrasion resistance, less shrinkage, greater resistance to water and salt penetration, and better tensile strength.

Miracote Repair Mortar I is Zero-VOC, virtually odorless, and environmentally safe. It requires no special training for installation and is easily handled by a handyman mason. It sets rapidly, can be applied over damp (not wet) surfaces, and can be installed at temperatures as low as 50°F (10°C).

WHERE TO USE

Use Miracote Repair Mortar I for interior or exterior structural repair applications on spalled, deteriorated or scaling concrete decks and industrial floors. Miracote Repair Mortar I is specially designed to prepare concrete for Miracote polymeric floor finishes.

ADVANTAGES

- High-Build: can be applied from featheredge to 3" thickness.
- Non-Shrinking: no cracks or fissures, same co-efficient of expansion as concrete.
- Freeze-Thaw Resistant: water retardancy prevents cold weather scaling.
- Simple to use: pre-portioned mixing.
- Polymer-Fortified: self-curing and superior adhesion.
- High Compressive Strength.

COVERAGE RATES

Theoretical Coverage Rates for 2 gallon liquid to (3) 50 lb bags of powder:

- 115.4 sq. ft @ 1/8 inch
- 57.6 sq. ft @ 1/4 inch
- 28.8 sq. ft. @ 1/2 inch
- 14.4 sq. ft. @ 1 inch
- 7.2 sq. ft. @ 2 inches
- 4.8 sq. ft. @ 3 inches

PACKAGING

- 7061 RM I Liquid (5gallon pail)
- 7062-50 RM I Gray Powder (50 lb bag)
- 7063-50 RM I White Powder (50 lb bag)

MIX RATIO

(2) Gallons Liquid to (3) 50 lb bags of powder.

SHELF LIFE AND STORAGE

One year from package manufacturing date. Keep in dry storage area until ready for use.

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

- Compression Strength** ASTM C109 (2" X 2" cubes)..... 4000 psi
- Indentation Characteristics** (Steadily Applied Load).....2.26%
MIL-D-3134, Para. 4.7.2.1 (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-31343.41%
- Tensile Strength** ASTM C190 925 psi
- Flexural Strength** ASTM C78 1,260 psi
- Impact Resistance** (Gardner Impact Tester)No chipping, cracking or
(Gardner Impact Tester) .. delamination and not more than 0.014"

OVERVIEW OF INSTALLATION STEPS

(Obtain and refer to Miracote Installation Guideline for full instructions.)

- **Mixing/Volume** - Miracote Repair Mortar I is two components and packaged in five-gallon pails of Miracote Repair Mortar I Liquid and 50 lb. bags of Miracote Repair Mortar I Powder. Standard mix is two gallons to three bags. This quantity covers approximated 60 sq. ft. (5.56 sq m) in a 1/4" (6.3 mm) thickness. In a "skim coating", a two gallon-three bag mix will cover about 160 sq. ft. (14 .86 sq m). Mix with drill mixer, or by mortar box and hoe, or in a plaster mixer.
- **Surface Preparation** - Concrete, new or old: clean and remove all grease, paint, curing agents and loose concrete patches and droppings.
- **Priming** - Prime surfaces with the Miracote Universal Primer. Use a mix of one part Miracote Liquid Catalyst and one part clean potable water or pre-packaged Universal Primer. Apply two coats if the first coat absorbs into concrete rapidly.
- **Application** - Trowel Miracote Repair Mortar I over the primed surface to thickness desired. This material can either be floated by straightedge or placed with a flat trowel. A very smooth finish can be attained with a flat trowel. Trowel or broom finish Miracote Repair Mortar I as desired. For applications deeper than 1/2", the material may be extended by the addition of crushed, dry, stone aggregate.

Caution: Carefully read and follow instructions on MSDS.



REPAIR MORTAR I (RM I)

For Best Results:

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 current versions of product technical data sheets (PTDS), material safety data sheets (MSDS), and installation guidelines (IG) at www.miracote.com.

Protect materials from excessive heat and cold and regularly check wet film thickness with mil gauge and monitor consumption to ensure correct application thicknesses and rate are obtained.

LIMITATIONS

- Drying time is about 8 hours per 1/4" thickness. Keep temperatures above 55°F (12°C) for fastest cure.
- Miracote Repair Mortar I will cure to a slightly darker color than concrete.

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.

SPECIFICATION ASSISTANCE

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

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.

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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