



MiraPatch RM 1

Product Technical Data Sheet

Miracote MiraPatch RM 1 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 MiraPatch RM 1 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 MiraPatch RM 1 has greatly improved adhesion, greater abrasion resistance, less shrinkage, greater resistance to water and salt penetration, and better tensile strength.

Miracote MiraPatch RM 1 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).

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.
- Available through Miracote distributors.

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 and COLORS

- 5-gallon pail liquid
- 50-pound powder (gray or white)

MIX RATIO

(2) Gallons Liquid to (3) 50 pound bags of 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 stored in a protected environment that is free from moisture, excessive heat and freezing temperatures, and direct sunlight.

WHERE TO USE

Use Miracote MiraPatch RM 1 for interior or exterior structural repair applications on spalled, deteriorated or scaling concrete decks and industrial floors. Miracote MiraPatch RM 1 is specially designed to prepare concrete for Miracote polymeric floor finishes.

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”

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.

OVERVIEW OF INSTALLATION STEPS

- **Mixing/Volume** - Miracote MiraPatch RM 1 is two components and packaged in 5-gallon pails of Miracote MiraPatch RM 1 Liquid and 50-pound bags of Miracote MiraPatch RM 1 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 MiraPrime Universal. Use a mix of one part Miracote Liquid Catalyst and one part clean potable water or pre-packaged MiraPrime Universal. Apply two coats if the first coat absorbs into concrete rapidly.

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OVERVIEW OF INSTALLATION STEPS (Continued)

- **Application** - Trowel Miracote MiraPatch RM 1 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 MiraPatch RM 1 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

LIMITATIONS

- Drying time is about 8 hours per 1/4" thickness. Keep temperatures above 55°F (12°C) for fastest cure.
- Miracote MiraPatch RM 1 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.

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.



Miracote Product Line
Crossfield Products Corp

www.miracote.com

East Coast Office
140 Valley Road
Roselle Park, CA 07204
P: (908) 245-2800
F: (908) 245-0659

West Coast Office
3000 E. Harcourt Street
Rancho Dominguez, CA 90221
P: (310) 886-9100
F: (310) 886-9119

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