



MiraFlor Flake Random Broadcast

Product Technical Data Sheet

Miracote MiraFlor Flake Random Broadcast is a decorative seamless epoxy flooring system with vinyl chips broadcast into it. MiraFlor Flake Random Broadcast consists of a primer, opaque or pigmented epoxy receiving coat, broadcast colored vinyl chips and a clear urethane topcoat. MiraFlor Flake Random Broadcast is available in standard colored chips and patterns (see the MiraFlor Flake Color Card). Custom mixes can be field created using standard solid colors.

Vinyl chips are sparsely broadcast into Miracote MiraFlor CQ receiving coat based on desired end look. The chips can be broadcast from a range of a few random chips per square foot into a pigmented receiving coat to complete chip coverage, which can be broadcast into a clear opaque (Miracote MiraFlor CQ Clear) or pigmented (Miracote MiraFlor CQ Pigmented) epoxy receiving coat.

MiraFlor Glazetop Clear an aliphatic polyurea topcoat(s) lock the vinyl chips in place. One to two topcoats are designed to hold the vinyl chips in place. MiraFlor Flake Random Broadcast is more economical than MiraFlor Flake Full Broadcast. One topcoat will leave an aggressive skid resistant finish, however it will be more difficult to clean. Two topcoats will make the system smoother, providing a less resistant floor, but will be easier to clean.

MiraFlor Flake Random Broadcast is available with an EPA Listed Anti-Microbial Biocide in the epoxy receiving coat only. Incorporating an anti-microbial in the epoxy systems, which protects against growth of algae, bacteria, fungi, mold, mildew, yeast, etc.

ADVANTAGES

- Produces a rapidly installed, decorative seamless floor at a moderate cost.
- Monolithic. Can incorporate integral cove base, which helps to eliminate unsanitary dirt build-up and microbial growth.
- Resistant to many chemicals.
- Skid-resistant – An array of skid-resistant surface textures available.
- Optional Waterproof Membrane for fluid-proofing suspended floors.
- Available through Miracote distributors.

COVERAGE RATES

See Installation Guide for specific components and coverage.

PACKAGING and COLORS

25-pound bag

50-pound box

Available in 12 Standard Colors and 9 Blended Decorative Colors.

MIX RATIO

See Installation Guide for specific components and mix ratios.

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 store in a protected environment that is free from moisture, excessive heat and freezing temperatures, and direct sunlight.

WHERE TO USE

- Light vehicular traffic areas, such as home garages and auto show rooms.
- Commercial areas, such as retail stores and restaurants (not kitchens).
- Institutional buildings, such as schools and churches.

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

Compressive Strength ASTM D695..... 9,000 psi
(Resin Components)

Tensile Strength ASTM D638..... 4,400 psi
(Resin components)

Elongation ASTM D638.....19.6%
(Resin Components)

Surface Hardness ASTM D2240 Shore D75 to 80

Indentation Characteristics

(Steadily Applied Load) MIL-D-3134, Para. 4.7.4.2.1
0.005” indent (2,000 lbs on a 1” steel ram imposed
for 30 mins concrete substrate)

Indentation Characteristics..... Passes
(Impacted Load) MIL-D-3134, Para. 4.7.3
0.011” indent (2 lb. steel ball dropped from 8-ft. height)

Adhesion ASTM D4541 > 400 psi

Water Absorption MIL-D-3134.....Less than 1%

Abrasion Resistance ASTM C501 19 Wear Index
(H-22 Wheel)

Microbial Resistance ASTM G21Passes Testing 1

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.

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OVERVIEW OF INSTALLATION STEPS

- Prepare surfaces by careful and thorough removal of laitance, grease, concrete curing agents and foreign matter.
- Apply Miracote MiraFlor CQ as the primer at 6.4 mils or 250 sq ft (23.2 sq meters) per gallon with squeegee and backroll.
- Apply clear or pigmented Miracote MiraFlor CQ Clear Epoxy receiving coat at 160 sq ft (14.9 sq meters) per gallon with squeegee and backroll.

Broadcast decorative vinyl chips at 0.04 lbs per 100 sq ft (9.3 meters) into wet receiving coat.

- If necessary, remove excess flakes and lightly sand if chip edges are curled up, this is usually the case with heavy broadcast applications.
- Apply topcoat of Miracote MiraFlor CQ Clear Epoxy at 125 sq ft (11.6 sq meters) per gallon with squeegee and backroll.
- Apply optional 1st finish coat MiraFlor Glazetop (Refer to Installation Guideline for application and coverage).
- Apply optional 2nd finish coat MiraFlor Glazetop (Refer to Installation Guideline for application and coverage).

LIMITATIONS

- If subsurface cracks due to continued thermal flexing or building settlement, floor may reflect those cracks to some degree.
- Surface on which MiraFlor Flake Random Broadcast is applied should be smooth and level.
- Moisture vapor transmission (MVE) in excess of 3.0 lbs./1000 sq/ft/per 24 hr. period per ASTM F1869, may result in delamination, discoloration or improper curing. Use Miracote MiraPrime MVERS vapor control membrane over substrates, which have MVE emissions that exceed these limits. Consult with Crossfield prior to using MiraPrime MVERS if moisture vapor emission rate exceeds 15 lbs/1000 sq/ft/per 24 hr period per ASTM F1869.

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.

SKID RESISTANCE and CLEANABILITY

In general, the more aggressive the finished surface the greater the coefficient of friction and corresponding skid resistance, the more difficult to clean. The smoother the finished texture the easier the surface is to clean, but there is a loss of skid resistant properties.

CHEMICAL RESISTANCE

See Crossfield Products Corp's. Chemical Resistance Guidelines for chemical resistance of a product or system, as well as the types of test performed:

- ASTM C868 Standard Test Method for Chemical Resistance of Protective Lining.
- ASTM C267 Standard Test Method for Chemical Resistance of Mortars, Grouts, and Monolithic Surfacing and Polymer Concretes.
- ASTM D1308 Standard Test Method for Effect of Household Chemicals on Clear and Pigmented Organic Finishes.
- Crossfield Products Corp. Proprietary Testing.

Note: Chemical resistance is a functional test, usually limited to changes in weight or thickness measured in loss or gain and does not evaluate subject aesthetic issues. To determine aesthetic issues, Crossfield recommends testing

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.

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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