



MiraFlor Flake Full Broadcast

Product Technical Data Sheet

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

Vinyl chips can be broadcast into MiraFlor Flake Full Broadcast 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 chips coverage, which can be broadcast into a clear opaque or pigmented epoxy receiving coat.

The top coat(s) lock the vinyl chips in place. One to two topcoats are designed to hold the vinyl chips in place. One epoxy or urethane lock coat is more economical and will leave an aggressive skid resistant finish, however it will be more difficult clean. Two topcoats will make the system smoother, providing a less resistant floor, but will be easier to clean.

MiraFlor Flake Full Broadcast is available with an EPA Listed Anti-Microbial Biocide, which protects against growth of algae, bacteria, fungi, old, 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

- Home garages.
- Auto show rooms.
- Retail stores.
- Restaurants (not kitchens).
- Schools.
- 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 D	75 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 G21.....	Passes 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 Epoxy Clear as the primer at 250 sq ft (23.2 sq meters) per gallon with squeegee and backroll.
- Apply clear or pigmented Miracote MiraFlor CQ Epoxy Clear receiving coat at 130 sq ft (12.1 sq meters) per gallon with squeegee and backroll.
- Broadcast decorative vinyl chips at 14 lbs per 100 sq ft (9.3 sq. 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 1st topcoat of MiraFlor CQ Epoxy Clear at 125 sq ft (11.6 sq meters) per gallon with squeegee and backroll.
- Apply optional 2nd topcoat of MiraFlor CQ Epoxy Clear at 250 sq ft (23.2 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 Full 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.

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.

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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, NJ 07204
P: (908) 245-2808
F: (908) 245-0659

West Coast Office
3000 E. Harcourt Street
Rancho Dominguez, CA 90221
P: (310) 631-6594
F: (310) 886-9119



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12-10-2012