



MIRAFLAKE RANDOM BROADCAST Random Broadcast of Vinyl Chips System

1. PRODUCT DESCRIPTION

A. COMPOSITION

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

Vinyl chips are sparsely broadcast into Miracote 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 CQ Clear) or pigmented (Miracote CQ Pigmented) epoxy receiving coat.

Mirathane APU Clear aliphatic polyester urethane topcoat(s) lock the vinyl chips in place. One to two topcoats are designed to hold the vinyl chips in place. Miraflake Random Broadcast is more economical than Miraflake 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.

Miraflake is available in the Dexcide series 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.

B. TYPICAL USES

Ideal for use in 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.

C. ADVANTAGES AND LIMITATIONS

ADVANTAGES:

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

LIMITATIONS:

1. If subsurface cracks due to continued thermal flexing or building settlement, floor may reflect those cracks to some degree.

2. Surface on which Miraflake is applied should be smooth and level.
3. Moisture vapor transmission (MVE) in excess of 3.0 lbs./1000 sq/ft/per 24 hr. period per ASTM F1869-04, may result in delamination, discoloration or improper curing. Use Miracote MVERS™ II Primer vapor control membrane over substrates, which have MVE emissions that exceed these limits. Consult with Crossfield prior to using MVERS II Primer if moisture vapor emission rate exceeds 15 lbs/1000 sq/ft/per 24 hr period per ASTM F1869-04.

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

A. Compressive Strength

ASTM D695 (Resin Components) 9,000 psi

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

C. Elongation ASTM D638 19.6%
(Resin components)

D. Surface Hardness ASTM D2240 Shore D 75 to 80

E. 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)

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

G. Adhesion ASTM D4541 > 400 psi

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

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

J. Microbial Resistance ASTM G21 Passes

3. INSTALLATION

- A. Prepare surfaces by careful and thorough removal of laitance, grease, concrete curing agents and foreign matter.
- B. Apply Miracote CQ as the primer at 6.4 mils or 250 sq ft (23.2 sq meters) per gallon with squeegee and backroll.
- C. Apply clear or pigmented Miracote CQ Clear Epoxy receiving coat at 160 sq ft (14.9 sq meters) per gallon with squeegee and backroll.
- D. Broadcast decorative vinyl chips at 0.04 lbs per 100 sq ft (9.3 meters) into wet receiving coat.
- E. If necessary, remove excess flakes and lightly sand if chip edges are curled up, which is usually the case with heavy broadcast applications.
- F. Apply topcoat of Miracote CQ Clear Epoxy at 125 sq ft (11.6 sq meters) per gallon with squeegee and backroll.
- G. Apply optional 1st finish coat Mirathane APU 100 Clear or Matte at 400 sq ft (37.2 sq meters) per gallon with squeegee and backroll.

H. Apply optional 2nd finishcoat Mirathane APU 100 Clear or Matte at 400 sq ft (37.2 sq meters) per gallon with squeegee and backroll.

4. PRODUCT AVAILABILITY

Miracote Products/Systems are available from Authorized Miracote Distributors or from Crossfield Products Corp.

5. 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.

6. 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.

7. MAINTENANCE

For maximum sheen and cleanability, floor should be routinely treated with conventional maintenance finish followed by ordinary buffing.

8. SPECIFICATION ASSISTANCE

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

9. 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 the products or system in accordance with intended end use.

10. 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.

West Coast Office
3000 E. Harcourt Street
Rancho Dominguez, CA
90221
310-886-9100
310-886-9119 fax

East Coast Office
140 Valley Road
Roselle Park, NJ
07204
908-245-2800
908-245-0659 fax

www.miracote.com