



MIRAFLAKE FULL BROADCAST Full Broadcast of Vinyl Chips System

1. PRODUCT DESCRIPTION

A. COMPOSITION

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

Vinyl chips can be broadcast into Miraflake 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 chip 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 to clean. Two topcoats will make the system smoother, providing a less resistant floor, but will be easier to clean.

Miraflake Full Broadcast is available in the Dexside series 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 Full Broadcast 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 Epoxy Clear as the primer at 250 sq ft (23.2 sq meters) per gallon with squeegee and backroll.
- C.** Apply clear or pigmented Miracote CQ Epoxy Clear receivingcoat at 130 sq ft (12.1 sq meters) per gallon with squeegee and backroll.
- D.** Broadcast decorative vinyl chips at 14 lbs per 100 sq ft (9.3 meters), into wet receivingcoat.
- 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 1st topcoat of Miracote CQ Epoxy Clear at 125 sq ft (11.6 sq meters) per gallon with squeegee and backroll.
- G.** Apply optional 2nd topcoat of Miracote CQ Epoxy Clear at 250 sq ft (23.2 sq meters) per gallon with squeegee and backroll.

- H. Apply optional 1st finishcoat Mirathane APU 100 Clear or Matte at 400 sq ft (13.2 sq meters) per gallon with squeegee and backroll.
- I. Apply optional 2nd finishcoat Mirathane APU 100 Clear or Matte at 400 sq ft (13.2 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.



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