



MiraFlor CQ Pigmented Broadcast

Product Technical Data Sheet

Miracote MiraFlor CQ Pigmented Broadcast Flooring Systems are Scientifically Superior™ monochromatic (solid color) three-component polymer system consisting of MiraFlor CQ Clear Epoxy and hardener, and ColorPax™-E (epoxy pigment pack), plus select Miracote aggregates. The floors (single and double broadcast) range in thickness from 1/20" (1.27 mm) to 1/8" (3.17 mm). The special aggregate is added to provide thickness, plus impact and skid resistance. Miracote MiraFlor CQ Pigmented systems are available in standard colors.

It can be finished with optional topcoats of clear (gloss) or matte finish, Miracote MiraFlor CR-N Topcoat when subjected to extremely harsh chemical exposure or Miracote MiraFlor Glazetop, which is a highly chemical and abrasion-resistant polyurea topcoat.

Miracote MiraFlor CQ Pigmented Systems are available with an EPA Listed Anti-Microbial Biocide, which protects against growth of algae, bacteria, fungi, mold, mildew, yeast, etc.

ADVANTAGES

- Virtually free of VOC
- Resistant to many chemicals (See Chemical Resistance Chart).
- Produces a rapidly-installed, decorative seamless floor at moderate cost.
- Crossfield offers a Limited Supplemental Warranty of ten years against moisture vapor suppression disbondment of Miracote MiraFlor CQ Pigmented Systems when used over Miracote MiraPrime MVERS. Contact Crossfield for additional information.
- Available through Miracote distributors.

COVERAGE RATES

See Miracote Installation Guide.

PACKAGING

Kit Sizes: 1.5 gal, 3 gal, 15 gal and 150 gal
Troweled Aggregate: 50-pound bag

MIX RATIO

See Miracote Installation Guide.

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

The intended use ranges from dry to wet environments in commercial, industrial and institutional areas, such as manufacturing, processing, warehousing, stairs, ramps, walkways, corridors and commons-areas. The material can be applied over new or existing concrete or Miracote composition floors or metal or wood sub-surfaces (Consult Crossfield for detailed specification for metal or wood surfaces).

In addition, Miracote MiraFlor CQ Pigmented Scientifically Superior Systems include: Smooth Coat; Smooth Coat with Synthetic Aggregate; Slurry coat; and Slurry coat Broadcast.

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

Compressive Strength ASTM C579	10,500 psi
(Resin, Hardener & Aggregate)	738 kg/cm ²
Compressive Strength ASTM D695	12,900psi
(Resin & Hardener).....	907 kg/cm ²
Tensile Strength ASTM C307.....	1,800 psi
(Resin, Hardener & Aggregate)	127 kg/cm ²
Tensile Strength ASTM D638	5,000 psi
(Resin & Hardener).....	352 kg/cm ²
Flexural Strength ASTM C580	4,000 psi
	281 kg/cm ²
Surface Hardness ASTM D2240 Shore D	80-85
Indentation Characteristics	
(Steadily Applied Load) MIL-D-3134	0.005"
Para 4.7.4.2.1, 2000 lbs on.....	0.127 sq. m
1" steel ram imposed for 30 minutes over	
A concrete substrate, indented.	
Indentation Characteristics MIL-D-3134,	
Para.4.7.3. (Impact Load)	0.011"
(2 lb .908 kg) Indent from steel ball.....	0.28 sq. m
Dropped twice from 8 ft. height	
Adhesion ASTM D4541	>400 psi
(100% failure in concrete)	28.1 kg/cm ²
Water Absorption MIL-D-3134	<1.0%
Abrasion Resistance ASTM D4060	
(CS17, 1000gr load, 1000 cycles)	0.04 gr
Flammability ASTM D635	Self-Extinguishing
	Bonded to Concrete
VOC	3 g/L
Skid Resistance	
Varies depending upon surface texture selected.	
(See Crossfield Skid Resistance Characteristic)	
Microbial Resistant ASTM G21	Passes Rating 1
Chemical Resistance	See Chemical Resistant Chart

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

- Prepare surface by careful and thorough removal of all laitance, grease, concrete curing agents and foreign matter.
- Apply Bondcoat Primer by squeegee, roller or brush.
- Trowel apply MiraFlor CQ Clear Epoxy and colored quartz aggregate to a thickness of 3/16" (4.75mm) to 1/4" (6.35mm).
- Groutcoat with MiraFlor CQ Clear Epoxy by squeegee or trowel, and by backrolling. Apply second groutcoat if required.
- Optional finish coat, with matte finish or optional high performance clear sealer.

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LIMITATIONS

- If dynamic cracks in the substrate move the flooring system may reflect the cracks. To minimize the potential of reflecting cracks telegraphing from the substrate, use
- Miracote MiraFlor MC-5 or another Miracote crack isolation systems.
- A waterproofing and crack isolation membrane can be installed prior to system application.

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 transmission 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.

SLIP RESISTANCE and CLEANABILITY

In general, the more aggressive the finished surface the greater the coefficient of friction and corresponding slip 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. 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.

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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12-10-2012