



CQ CLEAR EPOXY COLORED QUARTZ BROADCAST FLOORING

1/16" TO 1/8" Decorative Floor with Integral Covebase

PRODUCT DESCRIPTION

CQ Clear Epoxy Colored Quartz Broadcast Flooring is a thin section flooring system designed for use where a durable, monolithic floor with decorative value is required. Available in one, two or three broadcast and recover options, the completed floor is approximately 1/16" (1.59mm) to 1/8" (3.18mm) thick. Consists of colored quartz granules embedded in a Miracote's CQ Clear Epoxy resin. It is resistant to hydrocarbon greases, food greases and fats and a range of chemicals.

CQ Clear Epoxy Colored Quartz Broadcast Flooring can be applied over concrete sub-surfaces. Consult Crossfield Products Corp. office for specification or technical assistance when required over other substrates.

Special Colored Quartz aggregate granules are available in nine colors (gray, blue, white, black, brown, buff, tan, green and red). These aggregates are be mixed to make any color combination, which the above colors can produce. Eighteen standard aggregate blends are available and featured on the Miracote CQ Color chart.

CQ Clear Epoxy Colored Quartz Broadcast Flooring is available with an EPA Listed Anti-Microbial Biocide, which protects against growth of algae, bacteria, fungi, mold, mildew, yeast, etc.

In areas of high moisture emissivity, Miracote MVERS is to be specified. Alternative topcoats include Miracote Glazetop and Mirathane.

WHERE TO USE

Floors in front of houses, large public foyers, main lobbies, halls, passageways, laboratories, toilet rooms, food service, betting and stadium concessions and public areas, and in many institutional service environments.

ADVANTAGES

- Virtually free of VOC
- Produces a rapidly installed, decorative seamless floor at a moderate cost.
- Monolithic. Can incorporate integral cove base. Eliminates unsanitary build-up of bacteria.
- Resistant to many chemicals. See Chemical Resistant Table.
- Skid-resistant – An array of skid-resistant surface textures available.
- Maintenance – built to take repeated scrubbing.
- Waterproof Membrane optional for waterproofing suspended floors.

COVERAGE RATES

Refer to Installation Guide for coverage rates for each component in the system.

PACKAGING AND COLORS

7457-E	Colored Quartz Broadcast Agg 50 lb bag
7278-2GPA	CQ Clear Epoxy Colored Quartz (A – 2 gallon pail)
7279-1GCB	CQ Clear Epoxy Colored Quartz (B - 1 gallon can)

7278-5GPA	CQ Clear Epoxy Colored Quartz (A – 5 gallon pail)
7279-5GPB	CQ Clear Epoxy Colored Quartz (B – 5 gallon pail)
7278-50GDA	CQ Clear Epoxy Colored Quartz (A – 50 gallon drum)
7279-50GDB	CQ Clear Epoxy Colored Quartz (B – 50 gallon drum)

MIX RATIO

2 parts by volume Comp. A : 1 part by volume Comp. B.
40 lbs. aggregate per 100 ft²

For factory pre-blended aggregates, ask for a special quote dependant on the quantity required.

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.

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

Compressive Strength ASTM C579	10,000 psi (Resin, Hardener & Aggregate) 738 kg/cm ²
Compressive Strength ASTM D695	12,000 psi (Resin & Hardener) 907 kg/cm ²
Tensile Strength ASTM C307	1,800 psi (Resin, Hardener & Aggregate) 127 kg/cm ²
Tensile Strength ASTM D638	4,400 psi (Resin & Hardener) 310 kg/cm ²
Flexural Strength ASTM C580	4,000 psi (Resin, Hardener & Aggregate) 281 kg/cm ²
Surface Hardness ASTM D2240 Shore D.....	80-85
Pencil Hardness	3H
Indentation Characteristics	0.005"
(Steadily Applied Load) MIL-D-3134,	0.127mm
Para. 4.7.4.2.1, 2000 lbs on	
1" steel ram imposed for 30 minutes over	
a concrete substrate, indented	
Indentation Characteristics	0.011"
(Impact Load) MIL-D-3134, Para. 4.7.3	0.28 mm
(2 lb. 908 kg) Indent from steel ball	
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	0.09 gr
(CS17, 1000gr load, 1000 cycles)	
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 Resistant	(see Chemical Resistance Chart)



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OVERVIEW OF INSTALLATION STEPS

(Please refer to the following and contact Miracote with questions)

- Apply by squeegee and backroll epoxy primer, for single broadcast system only. Multiple broadcast use the CQ Clear Epoxy directly.
- Apply by squeegee and backroll epoxy receiving coat. Into wet receiving coat, broadcast colored quartz aggregate.
- After initial cure, sweep off and vacuum up excess aggregate.
- Repeat the process as many times as required.
- Note: Recovered clean Broadcast aggregates can be reused
- Apply by squeegee and backroll CQ Clear Epoxy grout coat
- Optional Miracote Glazetop or Mirathane urethane finish coats available to improve chemical resistance or to create a gloss or matte finish over the desired profile.

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.

LIMITATION

- Additional coats of topcoat and sealers can mitigate the slip resistant profile. Testing for Slip Profile is available upon request.
- If subsurface cracks due to continued thermal flexing or building settlement floor may reflect those cracks to some degree.
- Surface on which Colored Quartz 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 F1869-04, may result in delamination, discoloration or improper curing. Use Miracote MVERS™ II Primer vapor control membrane over substrates, which have MVE emission rate that exceed these limits. Consult with Crossfield prior to using MVERS II Primer if moisture vapor transmission exceeds 15 lbs/1000 sq/ft/per 24 hr period per ASTM F1869-04.

PRODUCT AVAILABILITY

Crossfield Products Corp. maintains offices and/or factories at all addresses listed below. Factory Trained Contractors are established in all major trading areas in the United States, Canada and various European, Latin American and Far East nations.

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'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.

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.



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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.

IN NO EVENT SHALL CROSSFIELD PRODUCTS CORP. BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES. THIS WARRANTY IS EXPRESSLY GIVEN IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR USE AND ALL OTHER OBLIGATIONS OR LIABILITIES ON CROSSFIELD'S PART, AND WE NEITHER ASSUME NOR AUTHORIZE ANY PERSON OR PERSONS TO ASSUME FOR US ANY OTHER LIABILITY IN CONNECTION WITH SALE OF A CROSSFIELD PRODUCT. THIS WARRANTY SHALL NOT APPLY TO ANY OF CROSSFIELD'S PRODUCTS, WHICH HAVE BEEN SUBJECT TO ADULTERATION, ALTERATION ABUSE OR MISUSE. CROSSFIELD PRODUCTS CORP. MAKES NO WARRANTY WHATSOEVER IN RESPECT TO ACCESSORIES, PARTS OR MATERIAL NOT SUPPLIED BY CROSSFIELD PRODUCTS CORP., WHICH ARE USED IN CONNECTION WITH ITS PRODUCTS. THE TERM "ORIGINAL PURCHASER" IN THIS WARRANTY MEANS THAT PERSON, CORPORATION OR ENTITY TO WHOM CROSSFIELD PRODUCTS CORP. SOLD ITS PRODUCTS. ANY ACTION TO ENFORCE ANY WARRANTY OR FOR BREACH OF CONTRACT OR ARISING OUT OF ANY CLAIM AGAINST CROSSFIELD PRODUCTS CORP. SHALL BE COMMENCED AND MAINTAINED ONLY IN A COURT OF COMPETENT JURISDICTION IN THE CONTINENTAL UNITED STATES OF AMERICA. THE PURCHASER ACCEPTS THESE TERMS AND CONDITIONS, AND HEREBY EXPRESSLY WAIVES ANY CLAIM TO ADDITIONAL DAMAGES.

CAUTION: ALWAYS KEEP OUT OF THE REACH OF CHILDREN.



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