



CQ CLEAR EPOXY

PRODUCT DESCRIPTION

Miracote CQ Clear Epoxy is a thin film two-component polymer used in Miracote Colorquartz, Miracote Micro-Topping concrete floor coating and concrete floor sealing applications.

CQ Clear Epoxy adds value, durability, and ease of maintenance. It is designed for use where long-lasting monolithic protection of decorative substrates is required. The completed system, 2 coats at approximately 7 mils each can perform as a stand-alone application over concrete, or can be applied in conjunction with Mirathane APU 100 topcoat when the advantages of a urethane topcoat are desired.

Miracote CQ Clear Epoxy can be applied over prepared concrete substrates or approved Miracote Systems. Consult any Crossfield Products Corp. office for specification or technical assistance.

WHERE TO USE

CQ Clear Epoxy is designed for Institutional, Commercial and Retail sanitary looking flooring areas. Typical applications include food preparation, laboratories, toilet rooms, food service, clinical sites, pet care, garage floors, etc. to protect the substrate concrete or decorative applications from medium to heavy duty use.

ADVANTAGES

- Virtually free of VOC.
- Produces a rapidly installed, decorative seamless floor coating at a moderate cost.
- Monolithic. Can incorporate an integral cove base. Eliminates unsanitary build-up of bacteria.
- Resistant to many chemicals, including brake fluid, gasoline, many acids solutions and other reagents. See Chemical Resistant Guide for specific details.
- Slip-Resistant – An array of slip-resistant surface textures available. ADA compliant (meets 0.6 flat surface and 0.8 ramped surface minimums).
- Maintenance – Built to take repeated scrubbing.

COVERAGE RATES

225 – 300 sq. ft. per mixed gallon

PACKAGING AND COLORS

7278-2GPA	CQ Clear Epoxy (A-2 gallon pail)
7278-5GPA	CQ Clear Epoxy (A-5 gallon pail)
7278-50GDA	CQ Clear Epoxy (A-50 gallon drum)
7279-1GCB	CQ Clear Epoxy (B-1 gallon can)
7279-5GPB	CQ Clear Epoxy (B-5 gallon pail)
7279-50GDB	CQ Clear Epoxy (B-50 gallon drum)

MIX RATIO

2 parts by volume Comp. A to one part by volume Comp. B.

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 D695	12,900 psi (Resin Components)			
Surface Hardness ASTM D2240 (Durometer)	Shore D - 85			
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 minutes. Concrete substrate)				
Adhesion ACI Committee 403 (Bulletin Title No. 59-43, pp. 1139-1141) 345 psi	100% failure in concrete			
Water Absorption MIL-D-3134	Less than 1%			
Abrasion Resistance ASTM C501 19 Wear Index	H-22 Wheel			
Tensile Strength ASTM D638	4,400 psi (Resin Components)			
Elongation ASTM D638	19.6% (Resin Components)			
VOC	3 g/L			
Coefficient of Friction-Rubber Shoe Surface (MIL-D-3134H Test Procedure)				
Profiles	Static Friction	Static Friction	Sliding Friction	Slide Friction
	Saltwater Solution on	Oil on surface	Saltwater Solution on	Oil on surface
Fine	0.85	0.65	0.79	0.40
Medium	0.93	0.70	0.85	0.45
Coarse	0.99	0.75	0.95	0.50
Viscosity (Brookfield RVT, #3 spindle, 20 RPM @ 23°C	545 cps.			

OVERVIEW OF INSTALLATION STEPS

(Obtain and refer to Miracote Installation Guideline for full instructions.)

- 12-24 hours prior to use, allow each component to be warmed to at least 60°F for ease of mixing.
- Prepare surfaces by careful and thorough removal of laitance, grease, concrete curing agents and foreign matter.
- Mix thoroughly using a jiffy mixer. Do not try to mix by hand. Apply 7 wet mils per coat in two applications.
- (Optional) Apply coats of clear resin by trowel or squeegee to fill and seal aggregate to specified texture.
- At normal ambient curing conditions (65-80°F, 25-65% R.H.):
Gel time25 minutes
Dry-to-touch3-4 hours
Light traffic8-12 hours

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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LIMITATION

- If subsurface cracks due to continued thermal flexing or building settlement, floor may reflect those cracks to some degree.
- Surface on which applied requires careful preparation and must be free of contamination that might cause a failure of bond.
- Limited UV stability – not recommended for exterior applications.
- If either component is exposed to sustained temperatures below 40°F, crystallization may occur. During periods of cold weather, care should be taken to allow components to warm to 60°F prior to use.

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 MVERSTM II Primer vapor control membrane over substrates, which have MVE emissions that exceed these limits. Consult with Crossfield prior to using MVERSTM 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 gains 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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