



# Product Information Sheet

## CQ CLEAR EPOXY MATRIX and TOPCOAT

### 1. PRODUCT DESCRIPTION

#### A. COMPOSITION

CQ Clear Epoxy Matrix and Topcoat is a two component, 100% solids epoxy resin and hardener multipurpose system. CQ Clear Epoxy is designed to be used in several Miracote Systems, such as decorative CQ Colored Quartz Broadcast Systems, decorative CQ Colored Quartz Troweled System, as well as the backbone epoxy for Miracote CQ Pigmented Systems, which include coatings, broadcast, slurry and troweled systems. In addition, CQ Clear Epoxy can be used as clear epoxy topcoat for Miracote products, such a Micro-Topping, Mirastamp, or direct to properly prepared concrete slabs as coating to reduce dusting by sealing the substrate.

CQ Matrix Resin adds value, durability, and ease of maintenance. CQ Matrix Resin is designed for use where long-lasting monolithic protection of decorative substrates is required. The completed system, 2 coats at approximately 6-8 mils each can perform as a stand-alone application over concrete, or can be applied in conjunction with Miracote Mirathane APU Clear Gloss or Mirathane APU Clear Matte finish coats when the advantages of a urethane topcoat are desired.

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

#### B. TYPICAL USES

CQ Matrix Resin 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.

#### C. ADVANTAGES AND LIMITATIONS

##### ADVANTAGES:

1. Produces a rapidly installed, decorative seamless floor coating at a moderate cost.
2. Monolithic. Can incorporate an integral cove base. Eliminates unsanitary build-up of bacteria.
3. Resistant to many chemicals, including brake fluid, gasoline, many acids solutions and other reagents. See Chemical Resistant Guide for specific details.
4. Slip-Resistant – An array of slip-resistant surface textures available.
5. Maintenance – Built to take repeated scrubblings.

##### 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 applied requires careful preparation and must be free of contamination that might cause a failure of bond.
3. Limited UV stability – not recommended for exterior applications.

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

- A. Compressive Strength** ASTM D695 12,900 psi  
(Resin Components)
- B. Surface Hardness**  
ASTM D2240 (Durometer) Scale "D" - 85
- C. 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)
- D. Indentation Characteristics**  
(Impacted Load) MIL-D-3134, Para. 4.7.3 (2 lb. Steel ball  
0.011" indent dropped from 8-ft height)
- E. Adhesion**  
ACI Committee 403 (Bulletin Title No. 59-43, pp. 1139-  
1141) 345 p.s.i. (100% failure in concrete)
- F. Water Absorption**  
MIL-D-3134 Less than 1%
- G. Abrasion Resistance**  
ASTM C501 19 Wear Index (H-22 Wheel)
- H. Tensile Strength**  
ASTM D638 4,400 p.s.i.  
(Resin Components)
- I. Elongation** ASTM D638 19.6%  
(Resin Components)
- J. Slip Resistance**  
Varies depending upon surface texture selected.

### 3. INSTALLATION

- A.** Prepare surfaces by careful and thorough removal of laitance, grease, concrete curing agents and foreign matter.
- B.** Mix and apply 6-8 wet mils per coat into two coats.
- C.** (Optional) Apply coats of clear resin by trowel or squeegee to fill and seal aggregate to specified texture.
- D.** Allow time for a full cure.

### 4. 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.

## 5. 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.

## 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.

## 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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