



Product Technical Data Sheet

MIRACOTE[®] CQ CLEAR EPOXY

1. PRODUCT DESCRIPTION

A. COMPOSITION

Miracote CQ Clear Epoxy is a thin film plural component epoxy resin 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. CQ Clear Epoxy 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 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.

B. TYPICAL USES

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.

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. ADA compliant (meets 0.6 flat surface and 0.8 ramped surface minimums).
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.
4. 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.

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. Coefficient of Friction-Rubber Shoe Surface**
(MIL D-3134H Test Procedure)
- | Profiles | Static | | Sliding | |
|----------|-------------|----------|-------------|----------|
| | Friction | Friction | Friction | Friction |
| | Saltwater | Oil on | Saltwater | Oil on |
| | Solution on | surface | Solution on | surface |
| | surface | | 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 |
- K. Viscosity** (Brookfield RVT, #3 spindle, 20 RPM, @ 23°C 545 cps.

3. INSTALLATION

- A.** 12-24 hours prior to use, allow each component to be warmed to at least 60°F for ease of mixing.
- B.** Prepare surfaces by careful and thorough removal of laitance, grease, concrete curing agents and foreign matter.
- C.** Mix thoroughly using a jiffy mixer. Do not try to mix by hand. Apply 6-8 wet mils per coat in two applications.
- D.** (Optional) Apply coats of clear resin by trowel or squeegee to fill and seal aggregate to specified texture.
- E.** At normal ambient curing conditions (65-80°F, 25-65% R.H.):
Gel time25 minutes
Dry-to-touch3-4 hours
Light traffic.....8-12 hours

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.

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CAUTION: ALWAYS KEEP OUT OF THE REACH OF CHILDREN.



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