



MiraFlor CR-N

Product Technical Data Sheet

Miracote MiraFlor CR-N is a seamless epoxy flooring that offers chemical resistance superior to that of conventional epoxy floors. Formulated using the most advanced Bis-F Epoxy chemistry, MiraFlor CR-N produces a tighter “cross-linking” than other epoxies. As a result, the material resists physical attack from the spillage of a very wide range of acids, alkalis, and solvents. Additionally, Miracote MiraFlor CR-N offers resistance to sustained high temperature spillage up to 250°F (120°C) and intermittent spillage up to 350°F (178°C). (Note: Typical epoxy flooring materials soften and deform at sustained temperatures in excess of 150°F.)

Due to its specialized chemistry, Miracote MiraFlor CR-N is premium priced compared to conventional epoxy floors and should be used only where its superior properties are required.

Miracote MiraFlor CR-N is applied either by trowel, slurry or broadcast method. It can be installed as a topcoat at thicknesses of 1/8” – 1/4” (3.1mm – 6.3mm) depending upon service requirements. Consult manufacturer for recommendations.

The material may be turned up at bases to form an integral cove base or to line trenches. Miracote MiraFlor CR-N is typically specified to include final finish filling and sealing coats available in a range of slip-retardant profiles.

Miracote MiraFlor CR-N is manufactured in a limited selection of colors. The material is also available in a multi-colored decorative aggregate application finished with clear coating. This product is known as Miracote “CR-N-D”.

Formulated with environmental requirements in mind, Miracote MiraFlor CR-N contains no hydrocarbon solvents and thus meets all state and local volatile organic substance regulations.

In conjunction with the Miracote Membrane system, Miracote MiraFlor CR-N may be utilized in secondary containment areas.

ADVANTAGES

- Monolithic, joint-less
- Superior chemical resistance.
- Heat resistant
- Wide range of color and profile selections.
- Installed only by factory-trained Miracote Applicators.
- Available through Miracote distributors.

COVERAGE RATES

25 sq. ft. @ 1/4” thickness, mortar mix.

PACKAGING

Kit Sizes: 5 gal and 25 gal

MIX RATIO

Three parts by Volume Comp. A to two 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.

WHERE TO USE

- Chemical/Solvent Storage
- Secondary Containment
- Battery Storage
- Plating Areas
- Trenches
- Chemical Spillage Manufacturing

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

Compressive Strength ASTM D695	8,740 psi
Chemical Resistance See separate chemical resistance tables	
Temperature Resistance No measurable softening, deflection or integrity loss upon 8 hours immersion in boiling water (212°F) and boiling cooking oil (>300°F)	
Surface Hardness ASTM D2240	
Durometer “D”	80-85
Tensile Strength ASTM D638	4,150 psi
Flexural Strength ASTM D790	8,370 psi
Bond Strength ACI Committee 503.1-92.....	>400 psi (100% failure of concrete)
Impact Resistance ASTM D2794	
Direct	50 in. lbs.
Reverse	15 in. lbs.
Water Absorption	
MIL-D-3134	Nil (7 day immersion)

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 guides (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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OVERVIEW OF INSTALLATION

- Preparation: Prepare surfaces by shotblasting, power scarification, etc. to remove laitance, grease, curing agents and other foreign matter.
- Apply epoxy primer coat.
- Trowel/broadcast apply Miracote MiraFlor CR-N bodycoat to thickness specified.
- Apply grout/filler coat and topcoat in color and profile as selected.

LIMITATIONS

- If sub-surface cracks, Miracote MiraFlor CR-N may reflect cracks to some degree.

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.

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

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CAUTION: ALWAYS KEEP OUT OF THE REACH OF CHILDREN.



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