



CR-N

Chemical Resistant Polymeric Flooring

PRODUCT DESCRIPTION

Miracote CR-N is a seamless epoxy flooring that offers chemical resistance superior to that of conventional epoxy floors. Formulated using the most advanced novolac-epoxy chemistry, Miracote 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 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 CR-N is premium priced compared to conventional epoxy floors and should be used only where its superior properties are required.

Miracote CR-N is applied either by trowel, slurry or broadcast method. It can be installed 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 CR-N is typically specified to include final finish filling and sealing coats available in a range of slip-retardant profiles.

Miracote CR-N is manufactured in a wide 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 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 CR-N may be utilized in secondary containment areas.

WHERE TO USE

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

ADVANTAGES

- Monolithic, joint-less
- Superior chemical resistance
- Heat resistant
- Installed only by factory-trained Miracote Applicators

COVERAGE RATES

25 sq. ft. at 1/4” film thickness.

PACKAGING AND COLORS

- 7220-3GPA CR-N Clear (A – 3 gallon pails)
- 7221-1GCB CR-N Clear (B – 1 gallon can)

MIX RATIO

3 parts by volume Comp. A to 1 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.....	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-PRF-3134.....	Nil (7 day immersion)

OVERVIEW OF INSTALLATION STEPS

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

- 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 CR-N bodycoat to thickness as specified.
- Apply grout/filler coat and topcoat in color and profile as selected.



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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

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

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.

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.

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.

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CAUTION: ALWAYS KEEP OUT OF THE REACH OF CHILDREN.



MIRACOTE PRODUCT LINE Crossfield Products Corp.

West Coast Office
3000 E. Harcourt Street
Rancho Dominguez, CA
90221
310-886-9100
310-886-9119 fax

East Coast Office
140 Valley Road
Roselle Park, NJ
07204
908-245-2800
908-245-0659 fax

www.miracote.com