



MiraFlor CR-N

Product Technical Data Sheet

MiraFlor CR-N is a two-component, 100% solids, medium viscosity pigmented resinous novolac epoxy coating designed for use in multiple types of flooring applications where high chemical resistance is required. It can be installed neat for high build floor coating applications or with the addition of aggregates for high-build applications and improved slip resistance.

Once applied and upon full cure, *MiraFlor CR-N* provides excellent protection against aggressive chemicals, acids, and high intermittent temperature fluctuations.

WHERE TO USE

- High build concrete vapor barrier protective coating.
- Seamless flooring applications.
- Aircraft, aeronautical and automotive facilities.
- Manufacturing and warehouse facilities.
- Secondary containment structures.
- Transportation terminals and loading docks.
- Prisons and correctional institutions.
- Battery charging areas.
- Decorative flooring treatments.

ADVANTAGES

- High build and medium viscosity floor coating.
- Excellent chemical resistance.
- High heat resistance.
- Good abrasion resistance.
- 100% solids.
- Factory pigmented and color matching availability.
- Low odor during application.

THEORETICAL COVERAGE RATES

107 – 225 sq. ft. @ per gallon. (7-15 WFT)

PACKAGING and COLORS

Kit Sizes: 5-gallon, 15-gallon

Component A: 3-gal, 5-gal units

Component B: 2-gal, 5-gal units

Available in nine standard colors

Refer to Miracote Standard Color Chart #543

MIX RATIO

Comp. A to Comp. B = 3:2 by volume.

SHELF LIFE AND STORAGE

One year from the date of manufacture as long as containers remain unopened and material is stored in a protected environment free from moisture, excessive heat, freezing temperatures, and direct sunlight.

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

Viscosity (mixed).....	4,000-6,000 cps
Solids Content.....	100%
Pot Life 50% RH (1-gallon mass)	Approximately 20 minutes
Dry Time 50% RH Tack Free	8 to 10 hrs.
	Light Traffic.....24-36 hrs.
	Vehicular Traffic.....72 hrs.
Recoat Time.....	8-24 hrs.
Tensile Strength ASTM D638.....	2,500 psi
Adhesion ASTM D4541	> 400 psi (100% cohesive failure in concrete)
Hardness ASTM D2240, Shore D	80-85
Microbial Resistance ASTM G21	Passes Rating 1
Fire Retardance	
ASTM E648, FTMS 372, NFPA 253, NBSIR 75-950	
Critical Radiant heat Flux	>1.07 Watts/cm ²

OVERVIEW OF INSTALLATION STEPS

• **Surface Preparation** – All surfaces must be clean, sound, dry and free from any bond inhibiting substances including, but not limited to, grease, oil and any other contaminants or loosely adhered materials. For concrete substrates, a minimum surface profile of a CSP-2 or higher is required depending on overall substrate conditions, application thickness, and coating requirements.

• **Mixing** – *MiraFlor CR-N* resin epoxy components must be mixed mechanically using a low-speed drill (300-450 rpm) until well blended with a “Jiffy-type” or similar Miracote-approved mixing paddle. Empty entire contents of component A and component B into a clean mixing vessel. Mix for approximately 3 minutes keeping the mixing head fully immersed at all times. At least once while mixing, stop to scrape down the sides and bottom of the pail to ensure thorough blending of both components. If not mixing full units, each component must be pre-mixed individually ensuring uniformity prior to use. Once completely mixed and in observance of pot life, dispense material immediately from the pail to the substrate.

Application – Pour out mixed *MiraFlor CR-N* in a large ribbon across the properly primed concrete surface or other type of substrate. Spread evenly with a flat squeegee, and back-roll with a high quality, phenolic core, industrial grade 3/16” to 1/4” maximum nap roller to achieve mil consistency. Consider use of roller cage end caps for precision gauging millage and minimal waste.

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FOR BEST RESULTS

- Always 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 and download current versions of product technical data sheets (PTDS), material safety data sheets (MSDS), and installation guides (IG) at www.miracote.com.
- Protect materials at all times from excessive heat and cold, and pre-condition to room temperature as necessary.
- Regularly check wet film thickness with mil gauge and monitor consumption to ensure correct application rates are obtained.
- The proper application of this product is the sole responsibility of the end user. Job site visits by Miracote representatives are only for the purpose of making recommendations, and do not assume any liability for supervision or quality control.
- Measure ambient temperature to ensure the material is only applied between a minimum of 45° F and a maximum of 90° F during placement and cure time.
- Measure substrate temperature to ensure the material is only applied between a minimum of 50° F and a maximum of 90° F during placement and cure time.

LIMITATIONS

- Installed product forms a vapor barrier after cure.
- Not intended for use on exterior concrete slabs-on-grade.
- Minimum ambient/substrate temperature of 50°F (10°C).
- Concrete must be minimum age of 21-28 days, depending on curing and drying conditions.
- Color will yellow over time when exposed to UV.
- Maximum allowable moisture vapor transmission (MVT) of 3.0 lbs./1000 sf./per 24 hr. period per ASTM F1869 (CaCl Testing).
- Maximum allowable moisture vapor transmission (MVT) of 75% RH as per ASTM F2170 (RH-Relative Humidity Testing).
- Use MiraPrime MVERS Plus epoxy moisture mitigation primer over concrete substrates that have MVT emissions that exceed these limits.

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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