



# MiraFlor WB

## Product Technical Data Sheet

Miracote MiraFlor WB is a two-component, superior, breathable, chemically resistant, waterbased epoxy floor coating system. The epoxy component is a 100% solids liquid epoxy blend. The hardener component is an aqueous dispersion of blended cycloaliphatic amines. The system is available in pre-pigmented form (see Miracote Standard Color Chart) or, in a clear form.

Miracote MiraFlor WB (Liquid Epoxy) can be used as a primer, intermediate coating and topcoat, eliminating the confusion that multi-product applications can cause during installation. When used as a primer, it should be diluted one-to-one with potable water. When used as coating, it can be installed at full strength in two coats.

### ADVANTAGES

- Water-based, vapor permeable and breathable
- Shorter cure time versus standard epoxy systems, for quick return to service
- Can be applied over “green-concrete”
- VOC compliant
- Slip resistance enhancement with synthetic aggregate
- Recommended for interior application
- ADA Compliant, for in-situ validate ADA Compliance use a Variable Incident Tribometer Machine
- LEED (Leadership in Energy and Environmental Design) Credit Points may be available under 5 different Classifications
- Does not contain chemicals targeted by Green Seal Standard GS-11 and LEED-CS as unacceptable
- Available through Miracote distributors

For greater chemical resistance an optional finish coat can be employed, such as MiraFlor Glazetop clear or pigmented, which are chemical, abrasion and UV stable; or top coated with MiraFlor CR Topcoat, which is a novolac epoxy.

### COVERAGE RATES

Wet: 400 sq. ft. @ 4 mils WFT per coat. Two coats recommended.  
Dry: 2 mil dft per coat

### PACKAGING and COLORS

Available in Kit Size of 4 gal. (One-gallon A/Three-gallon B)

For Available colors, refer to Miracote Standard Color Chart.

### MIX RATIO

1A:3B by volume

### 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

- MiraFlor WB is an ideal concrete substrate coating system for use in commercial, institutional and light to moderate manufacturing environments.
- MiraFlor WB Epoxy is designed for rapid turn-around applications, where a tough and moderately chemical-resistant epoxy floor coating is desired.
- It can be installed when high slab moisture content exists, including placement over “green-concrete” which is a minimum 7 days old and cured sufficiently for proper surface preparation, conditions that would prohibit the application of traditional epoxy coating and flooring systems. MiraPoxy WB complies with all Federal State and Provisional VOC requirements.

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

<b>Adhesion</b> ASTM D4541 .....	>400 psi (100% failure in concrete) .....	(28.1 kg/cm)
<b>Surface Hardness</b> ASTM D2240 Shore D .....	60	
<b>Impact Resistance</b> ASTM D2794 (Direct, inch pound).....	40	
(Indirect, inch pound) .....	8	
<b>Water Absorption</b> MIL-D-3134.....	< 1.0%	
<b>Abrasion Resistance</b> ASTM D4060 (CS17, 1000 gr load, 1000 cycles).....	0.1 gr	
<b>Flammability</b> ASTM D635 .....	Self-Extinguishing Bonded to Concrete	
<b>Skid Resistance</b> .....	Varies depending upon surface texture selected	
<b>Gloss Index</b> (60°) ASTM 1544 .....	80 to 90	
<b>Microbial Resistant</b> ASTM G21 .....	Passes Rating 1	
<b>Weight Solids</b> (mixed components) .....	70.0%	
<b>Volume Solids</b> (mixed components).....	67.0%	
<b>Pot-Life</b> .....	45-60 minutes	
<b>Tack-Free</b> .....	5 hours	
<b>Light Traffic</b> .....	5-6 hours	
<b>Recoat Time</b> .....	5-24 hours	
<b>Chemical Resistant</b> .....	See Chemical Resistance Chart	

### 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](http://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.

### OVERVIEW OF INSTALLATION STEPS

- **Surface Prepare** – Apply over a sound acceptable concrete substrate with a minimum CSP-4.
- **Mix** – Component A and Component B together, by slow to medium mixing paddle, 3 to 4 minutes per batch. Avoid introduction of air or deep vortex.
- **Application** – Prepare surface by careful and thorough removal of all laitance, grease, concrete curing agents and foreign matter.
  - **Primer** – Dilute one-to-one with clean potable water; 2 applications over porous fast absorbing substrate
  - **1<sup>st</sup> Coat** – Apply uniformly with squeegee and back roll
  - **2<sup>nd</sup> Coat** – Apply uniformly with squeegee and back roll

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### OVERVIEW OF INSTALLATION STEPS (Continued)

- **Optional Finish** – MiraFlor WB (Liquid Epoxy) Clear applied by 3/8" nap roller.

**NOTE:** Moisture Mitigation: Also recommended for use where MVE, measured by ASTM F1869, exceeds 3.0 lbs/1000 ft<sup>2</sup>. but is less than 10 lbs/1000 ft<sup>2</sup> per 24 hour period.

### LIMITATIONS

Do not apply over moving cracks, joints, or unsupported gaps. If sub-surface cracks after the coating is applied, the cracks will reflect through. Do not apply over working joints, expansion joints, or construction joints. The proper application of this product is the sole responsibility of the end user. Job site visits by Miracote representatives are a support service only and are not participatory in the quality or performance the contract. Supervision and quality control of work and contract are the sole responsibility of the contractor and user. Measure surface and ambient temperatures to assure application is within the acceptable range. If sub-surface cracks, the cracks may reflect through.

Application temperature – Slab and ambient temperature must be 40°F (4.5°C) and rising during placement and cure.

Not recommended for exterior application or areas subject to ultra violet light exposure. Application thickness is critical to cure and property development. Under application rate can result in retardation of cure and properties, over application can result in less than desired performance. Monitor application rate for best results.

### 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.

### MAINTENANCE

For maximum sheen and cleanability, floor should be routinely treated with conventional maintenance finish followed by ordinary buffing.

### SPECIFICATION ASSISTANCE

Consult Crossfield Products Corp. for specification assistance, detailing, etc. This consultation is highly recommended prior to specification.

### 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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