



## Product Technical Data Sheet

# MIRACOTE® Mirapoxy WB Water Based Epoxy

### PRODUCT DESCRIPTION

Mirapoxy WB is a two-component, superior, breathable, chemically resistant, water based epoxy floor coating system, which can be field-pigmented with ColorPax-W.

Miracote Mirapoxy WB 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.

### WHERE TO USE

Mirapoxy WB is an ideal concrete substrate coating system for use in commercial, institutional and light to moderate manufacturing environments.

Mirapoxy 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.

### ADVANTAGES

- Water-based, vapor permeable and breathable
- Rapid cure time, 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

For greater chemical resistance an optional finish coat can be employed, such as APU 100 clear or pigmented, which are chemical, abrasion and UV stable; or top coated with CR Topcoat, which is a novolac epoxy.

### COVERAGE RATE

Wet: 400 sq. ft. per coat at 4 mils wet film thickness  
Dry: 2 mil dft per coat

### PACKAGING AND COLORS

Mix ratio is 1A:1B by volume – Yield 4 Gallons per mixed kit

7237	-2GPA	Mirapoxy WB Comp. A in a 2 Gallon Pail
7238	-2GPB	Mirapoxy WB Comp. B in a 2 Gallon Pail
7237	-2GPA-S	Mirapoxy WB Satin Comp. A in a 2 Gallon Pail
7238	-2GPB-S	Mirapoxy WB Satin Comp. B in a 2 Gallon Pail

Standard is Clear Gloss or Satin. For Color, use ColorPax W – use two (2) ColorPax W units per mixed 4 Gallons Mirapoxy WB. Always refer to Miracote ColorPax E, U and W Color Chart

Also compatible with ColorPax LIP units, but the color will not match the color chart because ColorPax LIP are designed for use with white cement based products.

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

Adhesion ASTM D4541.....	> 400 psi (100% failure in concrete)	(28.1 kg/cm)
Surface Hardness ASTM D2240 Shore D.....	50-60	
Impact Resistance ASTM D2794		
(Direct, inch pound).....	40	
(Indirect, inch pound).....	8	
Water Absorption MIL-D-3134 .....	< 1.0%	
Abrasion Resistance		
ASTM D4060 (CS17, 1000 gr load, 1000 cycles).....	0.1 gr	
Flammability ASTM D635.....	Self-Extinguishing	
	Bonded to Concrete	
Skid Resistance.....	Varies depending upon surface texture selected	
Gloss Index (60°) ASTM D1544 .....	80 to 90	
Microbial Resistant ASTM G21 .....	Rating: Passes -1	
Weight Solids (mixed components).....	50.00%	
Volume Solids (mixed components).....	48.0%	
Pot-life.....	45-60 minutes	
Tack-free.....	60-90 minutes	
Light traffic.....	5-6 hours	
Recoat time.....	1 – 24 hours	
Chemical Resistant (See Chemical Resistance Chart)		

### OVERVIEW OF INSTALLATION STEPS

#### Obtain and Follow Miracote Installation Guideline

### SURFACE PREPARATION

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.

Mix ratio is 1A:1B by volume.

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

### Finish

Opaque with ColorPax W Clear Gloss or Matte by roller, slight stipple or smooth.

### NOTE:

Moisture Mitigation: Also recommended for use where MVE, measured by ASTM F1869-04, exceeds 3.0 lbs/1000 ft<sup>2</sup> but is less than 10 lbs/1000 ft<sup>2</sup> per 24 hour period.



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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's) 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.

### General Limitation

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. maintains offices and/or factories at all addresses listed below. Products can be purchased through many building materials distributors.

### MAINTENANCE

Depending on a number of various factors including weather conditions, location, UV exposure, vehicular vs. pedestrian traffic, your maintenance schedule will change. Please consult your local Miracote Representative for proper instructions. Acquire Care and Maintenance documents for this product from the manufacturer.

### 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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