



MiraThane WB

Product Technical Data Sheet

Miracote Mirathane WB is a single-component, self-crosslinking durable, chemical-resistant floor sealer designed for use in aircraft hangar, service bays, garage floors, and manufacturing areas, etc. Mirathane WB offers good chemical resistance, excellent cleanability and superior appearance. A water-based polyurethane material, Mirathane WB is usually applied over MiraGard HDWB. Mirathane WB offers good traction underfoot. It is available in gloss, satin, matte. It can be pigmented using ColorPax W). This product can be used in both interior and exterior service. Miracote Mirathane WB possesses excellent resistance to ultraviolet light including freedom from color change or degradation.

ADVANTAGES

- Excellent gloss retention, cleanability and abrasion resistance.
- Resists wide range of service and chemicals.
- Easy clean-up with tap water

COVERAGE RATES

250 sq. ft. at 6 mils wet film thickness

Actual consumption rates are dependent on many factors including, but not limited to, substrate profile and porosity, application thickness, and typical applicator waste rates.

PACKAGING and COLORS

Mirathane WB is packaged as follows:

One or five-gallon containers. For colors, add ColorPax W at a rate of one unit ColorPax (approximately one quart) per two gallons of Mirathane WB.

MIX RATIO

Single-component. Use as supplied

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

- Manufacturing areas
- Locker rooms
- Automobile service bays
- Aircraft hangars, etc.

CHEMICAL RESISTANCE

| | |
|------------------|-----------------------|
| Gasoline | No effect |
| Skydrol | No effect |
| Methanol | Loss of Gloss |
| Butanol | Loss of Gloss |
| 25% Nitric Acid | Loss of Gloss |
| Mineral Spirits | No effect |
| Motor Oil | No effect |
| Chlorox | No effect |
| 10% Ammonia | No effect |
| 10% Hydrochloric | Slight, loss of gloss |

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

| | |
|--|---|
| System Thickness (typical) | 6-12 mils |
| Pencil Hardness ASTM D2240 | 2H |
| Impact Resistance ASTM D2794 | Direct >160 in/lbs Reverse >160 in/lbs |
| Thermal Shock ASTM D1211 | Good |
| Flexibility ASTM D1737 (180° Bend, 1/8" mandrel) | Passes |
| Gloss ASTM D1544, 60 degrees | >85 |
| Elongation ASTM D522-88 | 200% |
| Adhesion ASTM D4541 | > 400 psi (100% failure in concrete) |
| Water Absorption MIL-D-3134 | < 1.0% |
| Abrasion Resistance | 0.05 gr ASTM D4060 (CS17, 1000gr load, 1000 cycles) |
| Flammability | Self-Extinguishing Bonded to concrete ASTM D635 |
| Skid Resistance | Varies with surface texture |
| Coefficient of Friction ASTM D4518 | ADA Compliant, for in-situ validate ADA Compliance use a Variable Incident Tribometer Machine 0.70 dry (level surface) 0.67 (incline 1:12) |
| Microbial Resistant ASTM G21 | Passes Rating 1 |
| Weight Solids (mixed components) | 48.25% |
| Pot-life | Indefinite |
| Tack-free | 60-90 minutes |
| Light traffic | 4-6 hours |
| Recoat time | 1 - 24 hours |

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.

OVERVIEW OF INSTALLATION STEPS

- Prepare surface by careful and thorough removal of all laitance, grease, concrete curing agents and foreign matter.
- For previously coated surfaces, use either MiraPrime UVS or a 50:50 blend of MiraThane WB and Water.
- Applicators should apply the coating at a wet film thickness of 5-6 mils.
- Recoating may take place within 8-24 hours after the 1st application. This time will vary depending on environmental conditions. Recoating should not be performed until the material has "tacked out". Subsequent coats should be applied at a ninety-degree angle relative to the preceding coat.
- If diluting to extend material, water may be added up to 20%, by volume.

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LIMITATIONS

- Substrate must be above 50°F (10°C), dry and free of excessive water vapor transmission with a relative humidity below 85% at time of installation.
- Moving cracks in concrete may reflect through finish.

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.

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's. 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.

LIMITED WARRANTY

NO WARRANTY SHALL BE EFFECTIVE UNTIL THE TERMS AND CONDITIONS OF SALE SET FORTH IN CROSSFIELD PRODUCTS CORP. INVOICES ARE MET.

Crossfield Products Corp. warrants to the purchaser of its products that such products are free from manufacturing defect. Crossfield does not warrant or guarantee the workmanship performed by any person or firm installing its products. Crossfield's obligation under this warranty is limited solely to the original purchaser and solely to the remedy of replacement in kind of any product which Crossfield sold which may prove defective in manufacture within one year from date of installation, provided said product was stored correctly and installed within the product's shelf life, by the original purchaser and which Crossfield's examination shall disclose to Crossfield's satisfaction to be thus defective.

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CAUTION: ALWAYS KEEP OUT OF THE REACH OF CHILDREN.



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