



MIRATHANE WB SEALER

PRODUCT DESCRIPTION

Miracote Mirathane WB is a durable, clear 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 applied over an epoxy primer coat or Mirathane WB diluted 50% with water for exterior applications. Although quite glossy, Mirathane WB offers good traction underfoot. This product can be used in both interior and exterior service and is available in a Gloss or Matte finish. Miracote Mirathane WB possesses excellent resistance to ultraviolet light including freedom from color change or degradation.

WHERE TO USE

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

ADVANTAGES

- Excellent gloss, cleanability and abrasion resistance.
- Resists wide range of service and chemicals.
- Complies with VOC regulations, including South Coast Air Quality Management District (SCAQMD)

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 a two-component system, packaged as follows:

Short-filled one-, two-, or five-gallon containers of A component, to accommodate, 9-, 18-, or 45-fluid ounce containers of B component. This allows the end-user to mix the B components directly into the A component.

For colors, add ColorPax W at a rate of one unit ColorPax (approximately one pint) per gallon of Mirathane WB.

MIX RATIOS

The components of A and B are pre-measured. Add all of B into A and mix well for 3-5 minutes. Actual mix ratio, by volume is:

- 100 parts by volume Component A
- 7 parts by volume Component B

SHELF LIFE AND STORAGE

Shelf life will be 1 year from the date of manufacture as long as containers remain unopened and when material is stored in a protected environment that is free from moisture, excessive heat and freezing temperatures, and direct sunlight.

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

System Thickness (typical)..... 6-12 mils
Pencil Hardness ASTM D2240..... 2-3H
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

Chemical Resistance

Gasoline	No effect
Skydrol	No effect
Methanol	Loss of Gloss
Butanol	No effect
25% Nitric Acid	Destroyed
Mineral Spirits	No effect
Motor Oil	No effect
Chlorox	No effect
10% Ammonia	8F Blisters
10% Hydrochloric	8F Blisters

Gloss ASTM D1544, 60 degrees.....>85

Elongation ASTM D522-88.....300%

Adhesion ASTM D4541.....> 400 psi
(100% failure in concrete) 28.1 kg/cm

Water Absorption MIL-PRF-3134..... < 1.0%

Abrasion Resistance.....0.1 gr
ASTM D4060 (CS17, 1000gr load, 1000 cycles)

Flammability ASTMD635

Self-Extinguishing Bonded to concrete

Skid Resistance.....Varies with surface texture

Coefficient of Friction

ADA Compliant, for in-situ validate ADA Compliance use a Variable Incident Tribometer Machine:

ASTM D2047.....0.67 dry (level surface)
0.82 (incline 1:12)

Microbial Resistant ASTM G21.....Passes #1

Weight Solids (mixed components).....33.0%

Volume Solids (mixed components)30.0%

Pot-life.....2 hours

Tack-free.....60-90 minutes

Light traffic.....4-6 hours

Recoat time.....1 – 24 hours

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 Miracote Clear Prime UVS, or a 50:50 blend of Mirathane WB : water.
- Add the Mirathane WB Crosslinker, slowly, to the Mirathane WB. Add at a rate of 9 fluid ounces cross-linker to one gallon Mirathane WB.
- Mix with a jiffy type mixing blade at medium to high shear for 2-5 minutes. The mixture should take on a uniform color.



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- **Do not dilute with water or solvent**, Over-dilution of the mixture can adversely affect coating properties. Dilution with water will cause film formation defects except for primer application.
- Applicators should apply the coating at a wet film thickness of 5-6 mils.
- Recoating may take place within 1-24 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.

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. 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.

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.

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.

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.

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.



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