



# MiraThane 500

## Product Technical Data Sheet

Miracote MiraThane 500 is a trowel-applied elastomeric surfacing designed primarily for use as a waterproof promenade roofing. The material consists of a unique moisture-cured resin binder into which rubber aggregate is combined at the time of application to form a tough, elastic waterproof membrane. A durable elastomeric textured topcoat is then applied. An alternate topcoat system incorporating decorative mineral aggregates is also available. The material is turned up against building walls, parapets, etc., to form an integral waterproof membrane.

Designed primarily as a waterproof promenade surfacing for balconies, sun decks, play roofs, etc. Miracote MiraThane 500 is also used as a protective covering for renovating cracked concrete decks, parking structures, etc. The tough, long-wearing qualities of MiraThane 500 permit its use under such normally damaging service as ski boot traffic.

Surfaces over which MiraThane 500 may be installed include plywood, new and existing concrete and metal. Consult Crossfield Products Corp. regarding other surfaces.

### ADVANTAGES

- Monolithic including integral flashing.
- Resilient and comfortable underfoot.
- Reduces sound transmission to adjacent areas.
- Environmentally safe – Meets various state volatile organic compound requirements.

### COVERAGE RATES

1. Primer: 250 sq. ft. per mixed gallon
2. MiraThane 500: 125 sq. ft. per mixed gallon per coat
3. Wearcourse / Receiving: 125 sq. ft. per mixed gallon per coat
4. Lockcoat / Topcoat: 100 sq. ft. per mixed gallon

### PACKAGING and COLORS

5-gallon pail  
Accelerator: 1-oz bottle

### MIX RATIO

Refer to PTDS and IG for each component of this system.

### 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 stored in a protected environment that is free from moisture, excessive heat and freezing temperatures, and direct sunlight.

### WHERE TO USE

Promenade roofs, sun decks, rooftop tennis courts and balconies; waterproof surfacing for areas subject to ski boots.

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

Weight .....	0.46 lbs/sq. ft
Thickness (typical) .....	1/16" (62.5 mils)
Elongation ASTM D412 .....	500%
Tensile Strength ASTM D412 .....	1,050 psi
Waterproofness .....	No water transmission (Sample exposed to 50 psi water pressure for 1 hour)
Adhesion ASTM D903 .....	175 psi
Hardness ASTM 2240 .....	Shore "A" .....60-70
Crack Bridging and Low Temperature Flexibility ASTM C836 .....	Complies

### 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

- **Preparing Surfaces:** Prepare surface by careful and thorough removal of laitance, grease, and concrete curing agents and foreign matter. Consult Crossfield Products Corp. for acid etching or shot-blasting requirements.
- **Product Application**
  - Apply epoxy primer by roller.
  - Apply MiraThane 500 basecoat by trowel and broadcast with rubber granules.
  - Apply pigmented topcoat.

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### LIMITATIONS

- Substrate must be dry when material is applied.

### 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.

### 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.

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.



**Miracote Product Line**  
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