



MiraFlex XL Pedestrian Membrane

System Technical Data Sheet

MiraFlex XL is a multi-component, fabric-reinforced, polymer-modified, cementitious, pedestrian traffic membrane waterproofing system designed for use on concrete, wood and other suitable substrates. Ideal for use in exterior and interior environments, *MiraFlex XL* is a solvent-free, vapor-permeable membrane system composed of specific fluid-applied, and layered components each performing a distinct function.

Individual layers include an elastomeric waterproofing base coat reinforced with poly fabric mesh, a polymer-modified cementitious intermediate textured wear course, and an acrylic pigmented top coat for optimal daily care and maintenance requirements.

WHERE TO USE

- Exterior and interior pedestrian traffics surfaces.
- Over concrete, plywood and other substrates.
- Pedestrian bridge spans.
- Balconies and plaza decks.
- Walkways, breezeways and stairways.
- Pedestrian roof decks and patios.
- Mechanical equipment rooms.
- Waterproofing under raised access flooring systems.
- Pool decks and other recreational areas.
- Encapsulation of surfaces containing lead-based paint.

ADVANTAGES

- Monolithic, seamless protection – waterproofing membrane.
- Vapor permeable - allows substrate to breath without blistering.
- Water-based - environmentally safe, non-toxic & non-flammable.
- Fabric-reinforced – provides flexural strength and crack resistance.
- Excellent UV stability – won't exhibit degradation or yellowing.
- Wide array of slip resistant textures, colors and finishes.
- Excellent adhesion on damp substrates.
- Fast cure time for quick return-to-service.
- Solvent-free with minimal odor.
- VOC and LEED-compliant.

SYSTEM COMPONENTS

Waterproofing Membrane: MiraFlex Membrane C
Reinforcement Mesh: Miracote Poly Fabric
Textured Wear Course: Miracote MPC
Acrylic Topcoat: MiraGard Colorbond XL

THEORETICAL COVERAGE RATES*

MiraFlex Membrane C:

1st Membrane Coat.....160 sq. ft. per unit
2nd Membrane Coat (over poly fabric)112 sq. ft. per unit

Miracote MPC:

1st Coat.....500 sq. ft. per unit
2nd Coat.....500 sq. ft. per unit

MiraGard Colorbond XL: (Pigmented Acrylic Topcoat)

1st Topcoat.....250-300 sq. ft. per gal
2nd Topcoat.....250-300 sq. ft. per gal

*(Refer to individual PTDS and System Installation Guidelines)

PACKAGING, COLORS AND MIX RATIO

Refer to individual PTDS for each system component.

SHELF LIFE AND STORAGE

One year from the date of manufacture provided containers remain unopened, and material is stored in a protected environment free from moisture, excessive heat, freezing temperatures, and sunlight.

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

MiraFlex Membrane C

Working Life.....15-45 minutes (rate of evaporation dependent)

Recoat Time 2-4 hours or when dry

Open to Traffic..... 12 – 24 hours

Waterproofness ASTM D4068 modified No passage of water
Resistance to passage when subjected to 27.7” head of water (hydrostatic pressure of 1 lb./ft.) for one month.

Elongation ASTM D638..... 65%

Tensile Strength ASTM D638 750 psi
7 days dry / 21 days wet

Crack –Bridging ASTM E836

1/8” opening @ 77°F.....Pass (No rupture)

Hydrostatic Resistance ASTM D751

Procedure B..... Pass

Permeability ASTM E96..... 0.75 perm/inches

Miracote MPC

Working Life.....15-60 minutes (rate of evaporation dependent)

Recoat Time 1-4 hours or when dry

Open to Traffic..... 12 – 24 hours

Adhesion ASTM C-882, Type 1 515 psi

Tensile Strength ASTM C190..... 450 psi

Compressive Strength ASTM C109 2,440 psi

Water Vapor Permeability ASTM E96..... 1.96 perms/in

Impact Resistance MIL-D-3134, Para.4.7.3

2 lb. steel ball dropped from 8’ height onto coated steel plateNo cracking or detachment

Flammable Properties ASTM E84 Flame spread – 4
Smoke Density – 0

Fire Resistance UL790.....Complies as Class A

OVERVIEW OF INSTALLATION STEPS

• **Surface Preparation** – All surfaces to receive MiraFlex XL must be clean, sound, dry and free from any bond inhibiting substances including, but not limited to, dirt, grease, oil, and any contaminants or loosely adhered materials. For concrete substrates, a minimum surface profile of CSP-3 or higher is required depending on overall substrate conditions and coating requirements. For wood and other substrate types, consult with a local Miracote representative or Crossfield Products Corp. Technical Service Department regarding application requirements and instructions for in-situ bond pull-off testing to verify acceptable adhesion.

• **Mixing** – Prior to use, all fluid components must be pre-mixed mechanically using a low-speed drill (300-450 rpm) with a “Jiffy-type” or similar Miracote-approved mixing paddle until thoroughly blended. Refer to Installation Guidelines for each Miracote product component in the MiraFlex XL Pedestrian Membrane system.

MiraFlex XL Pedestrian Membrane

System Technical Data Sheet

OVERVIEW OF INSTALLATION STEPS (continued)

• Application –

Priming & Elastomeric Membrane Layer: Refer to product technical data sheet and installation guideline for MiraFlex Membrane C.

Cementitious Protective Wear Course: Refer to product technical data sheet and installation guideline for Miracote MPC.

Pigmented Acrylic Topcoat: Refer to product technical data sheet and installation guideline for MiraGard Colorbond XL.

FOR BEST RESULTS

- Always 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 and download current versions of product technical data sheets (PTDS), material safety data sheets (MSDS), and installation guides (IG) at www.miracote.com.
- Protect materials from excessive heat and cold, and pre-condition to room temperature as necessary.
- Regularly check wet film thickness with mil gauge and monitor consumption to ensure correct application rates are obtained.
- The proper application of this product is the sole responsibility of the end user. Job site visits by Miracote representatives are only for observation and making recommendations, and do not assume any liability for supervision or quality control.
- Measure surface and ambient temperatures to ensure the material is only applied when temperatures are 50°F (10°C) and rising during placement and cure time.

LIMITATIONS

- Minimum ambient/substrate temperature of 50°F (10°C) and rising is required at the time of application.
- Use MiraPrime Aqua-Blok XL primer over concrete substrates that exhibit active negative-side moisture vapor migration prior to the application of MiraFlex Membrane C.
- Prior to installing over exterior plywood decking consult with a local Miracote representative for specific requirements for wood deck construction.

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.

IN NO EVENT SHALL CROSSFIELD PRODUCTS CORP. BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES. THIS WARRANTY IS EXPRESSLY GIVEN IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR USE AND ALL OTHER OBLIGATIONS OR LIABILITIES ON CROSSFIELD'S PART, AND WE NEITHER ASSUME NOR AUTHORIZE ANY PERSON OR PERSONS TO ASSUME FOR US ANY OTHER LIABILITY IN CONNECTION WITH SALE OF A CROSSFIELD PRODUCT. THIS WARRANTY SHALL NOT APPLY TO ANY OF CROSSFIELD'S PRODUCTS, WHICH HAVE BEEN SUBJECT TO ADULTERATION, ALTERATION ABUSE OR MISUSE. CROSSFIELD PRODUCTS CORP. MAKES NO WARRANTY WHATSOEVER IN RESPECT TO ACCESSORIES, PARTS OR MATERIAL NOT SUPPLIED BY CROSSFIELD PRODUCTS CORP., WHICH ARE USED IN CONNECTION WITH ITS PRODUCTS. THE TERM "ORIGINAL PURCHASER" IN THIS WARRANTY MEANS THAT PERSON, CORPORATION OR ENTITY TO WHOM CROSSFIELD PRODUCTS CORP. SOLD ITS PRODUCTS. ANY ACTION TO ENFORCE ANY WARRANTY OR FOR BREACH OF CONTRACT OR ARISING OUT OF ANY CLAIM AGAINST CROSSFIELD PRODUCTS CORP. SHALL BE COMMENCED AND MAINTAINED ONLY IN A COURT OF COMPETENT JURISDICTION IN THE CONTINENTAL UNITED STATES OF AMERICA. THE PURCHASER ACCEPTS THESE TERMS AND CONDITIONS, AND HEREBY EXPRESSLY WAIVES ANY CLAIM TO ADDITIONAL DAMAGES.

CAUTION: ALWAYS KEEP OUT OF THE REACH OF CHILDREN.



**Miracote Product Line
Crossfield Products Corp**

www.miracote.com

East Coast Office
140 Valley Road
Roselle Park, CA 07204
P: (908) 245-2800
F: (908) 245-0659

West Coast Office
3000 E. Harcourt Street
Rancho Dominguez, CA 90221
P: (310) 886-9100
F: (310) 886-9119



**MIR.101
MIRAFLEX XL
12-05-2018**