



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 topcoat 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 – will not 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)124 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..... 43%

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 1515 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.

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OVERVIEW OF INSTALLATION STEPS (continued)

- **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.

- **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.

LIMITED WARRANTY

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CAUTION: ALWAYS KEEP OUT OF THE REACH OF CHILDREN.



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