



MiraFlex III Pedestrian Deck System

System Technical Data Sheet

MiraFlex III is a multi-component, seam tape-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 III* is a solvent-free 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 seam/flashing tape where required, 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.

ADVANTAGES

- Monolithic, seamless protection – waterproofing membrane.
- Water-based - environmentally safe, non-toxic & non-flammable.
- Seam tape reinforced – provides flexural strength.
- Excellent UV stability – will not exhibit degradation or yellowing.
- Wide array of slip resistant textures, colors and finishes.
- Excellent adhesion on damp concrete substrates.
- Fast cure time for quick return-to-service.
- Solvent-free with minimal odor.
- VOC and LEED-compliant.

SYSTEM COMPONENTS

Waterproofing Membrane: MiraFlex Liquid Membrane
Seam/Flashing Tape: MiraFlex Seam Tape
Textured Protection Coat: Miracote MPC
Acrylic Topcoat: MiraGard Colorbond XL

THEORETICAL COVERAGE RATES*

MiraFlex Seam Tape:4” x 75’ per roll

MiraFlex Liquid Membrane:

1st Membrane Coat.....64 sq. ft. per gallon
 2nd Membrane Coat.....64 sq. ft. per gallon

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 Liquid Membrane

Solids Content.....50%

Tensile Strength ASTM D638..... 345 psi

Crack –Bridging ASTM E836

1/8” opening @ 77°FPass (No rupture)

Hydrostatic Resistance ASTM D751

Procedure B.....Pass

Permeability ASTM E96 0.013 perm/inches

Microbial Resistance ASTM G21 Passes Rating 2

Adhesion in Peel to Concrete ASTM C794..... 8.3 lbs.

Moisture Vapor Transmission ASTM E96.....2.04g

(Grams/sq. meter/24 hrs.)

VOC 40 CFR 60, Appendix A-7, Method 24 9 g/L

Cold Temperature Flexibility

May be folded double, maintains excellent elongation when immediately removed from freezer.

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 UL790Complies as Class A

OVERVIEW OF INSTALLATION STEPS

- **Surface Preparation** – All surfaces to receive *MiraFlex III* 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 applicable installation guideline (IG), 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 III Pedestrian Membrane System*.

- **Application** –

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

Seal Butt Joints/Flashing Tape: Refer to product technical data sheet and installation guideline for *MiraFlex Seam Tape*.

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 Liquid Membrane*.

LIMITED WARRANTY

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CAUTION: ALWAYS KEEP OUT OF THE REACH OF CHILDREN.



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MIRAFLEX III DECK SYSTEM
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