



MPC Hybrid Park Deck System

System Technical Data Sheet

MPC Hybrid Park Deck System is an elastomeric, multi-component and layered concrete waterproofing system specifically designed for parking decks and other structures exposed to vehicular traffic. Ideal for use in exterior and interior environments, **MPC Hybrid Park Deck** is a solvent-free waterproofing membrane system composed of fluid-applied and layered components each performing distinct functions.

Individual layers include the treatment and reinforcement of cracks and cold joints, an elastomeric waterproofing base coat, and followed by two polymer-modified cementitious topcoats. Optional clear and pigmented seal coats are available for optimal daily care and maintenance requirements that include both acrylic and aliphatic polyurethane formulas.

WHERE TO USE

- Exterior and interior parking structures.
- New post-tension and cast-in-place parking structures.
- Areas with conditioned space below.
- Concrete slabs over vented metal pan decks.
- Pedestrian bridge spans.
- Plaza decks.
- Stadiums and sports arenas.

ADVANTAGES

- Monolithic, seamless protection – waterproofing membrane.
- Water-based - environmentally safe, non-toxic & non-flammable.
- 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

Crack Treatment Sealant:	MiraFlex Hybrid Sealant
Crack Reinforcement:	Poly Fabric Ultra
Waterproofing Membrane:	MiraFlex Liquid Membrane
Traffic Base Coat:	Miracote MPC Regular
Traffic Topcoat:	Miracote MPC Hard
Optional Acrylic Sealer:	MiraGard Colorbond XL or HDWB
Optional Urethane Sealer:	MiraThane CRU Gloss or Matte

THEORETICAL COVERAGE RATES*

MiraFlex Liquid Membrane:
Waterproofing Membrane Coat.....64 sq. ft. per gallon

Miracote MPC:
Base Coat (Regular Powder).....500 sq. ft. per unit
Topcoat (Hard Powder).....500 sq. ft. per unit

Option 1 MiraGard HDWB Sealer: (Pigmented or Clear Acrylic)
One or two coats.....250-300 sq. ft. per gal

Option 2 MiraThane CRU: (Clear only, Gloss or Matte)
One or two coats.....320-500 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°F	Pass (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 Permeance ASTM E96	> 10 perms
Impact Resistance MIL-D-3134, Para.4.7.3 2 lb. steel ball dropped from 8’ height onto coated steel plate	No 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 **MPC Hybrid Park Deck** 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. Concrete and other porous or absorptive substrates should be **(SSD) saturated surface dry** with no standing water at the time of the Miracote MPC application to the substrate.
- **Mixing** – Prior to use, all fluid components must be pre-mixed mechanically using a low-speed drill (300-450 rpm) with a “Jiffy or double-box type” Miracote-approved mixing paddle until thoroughly blended. Refer to Installation Guidelines for each Miracote product component in the **MPC Hybrid Park Deck System**.

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OVERVIEW OF INSTALLATION STEPS (continued)

• Application –

Treatment of Cracks and Cold Joints: Refer to product technical data sheet for *MiraFlex Liquid Membrane* and Steps 2 and 3 detailed in the installation guideline (IG) for *MPC Hybrid Park Deck*.

Waterproofing Membrane Layer: Same as above and refer to Step 4 as detailed in the installation guideline (IG).

Vehicular Traffic Wear Course: Same as above and refer to product technical data sheets for *Miracote MPC Park Deck* and Steps 5 and 6 as detailed in the installation guideline (IG).

Clear or Pigmented Acrylic Sealers Option 1: Refer to the product technical data sheets and installation guidelines (IG) for *MiraGard Colorbond XL* and *MiraGard HDWB*.

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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. Refer to individual product technical data sheets for pertinent and additional information and requirements.

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*.
- May reflect moving cracks and control joints due to inadequate joint design and spacing.
- Staining, streaking and efflorescence may occur when fresh coating is exposed to excessive ponding or running water.
- Prevent any contact with aluminum which can cause an adverse chemical reaction due to MPC's cementitious content.

LIMITED WARRANTY

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CAUTION: ALWAYS KEEP OUT OF THE REACH OF CHILDREN.



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