



Miracote MPC Park Deck

Product Technical Data Sheet

Miracote MPC Park Deck is a polymerized, two component, cementitious protective coating that can be applied over a variety of surfaces including concrete, masonry, metal, wood and tile. It consists of a unique rubber-like polymer liquid that is mixed with proprietary cement and aggregate blend. Miracote MPC is then typically applied in two or more coats by trowel, brush, roller, spray or notched squeegee and back roll.

Designed for both exterior and interior use, *Miracote MPC Park Deck* restores and protects vehicular concrete surfaces from the consequences of exposure to water and chloride intrusion, freeze/thaw damage, abrasion and carbonation. An extremely durable, cost-effective protective coating *Miracote MPC Park Deck* is “breathable” and allows for the transmission of inherent moisture vapor within concrete without blistering or delamination. By lowering moisture content within the concrete, *Miracote MPC Park Deck* helps reduce the potential for corrosion of steel reinforcement.

WHERE TO USE

- Concrete restoration and protection projects
- Resurfacing flawed or discolored concrete
- Renovations to stadiums and arenas
- Driveways and other vehicular traffic surfaces
- Concrete slab-on-grade waterproofing and protection
- Concrete topping slabs over sandwich membranes
- Vented and unvented metal pan decks

ADVANTAGES

- Moisture vapor permeable – reduces potential for corrosion.
- Protects against penetration of water, chlorides and CO².
- Ideal for exterior/interior, horizontal vehicular traffic.
- Mitigates corrosion when used with MiraPrime Aqua-Blok XL.
- Enhances appearance and curb appeal of concrete.
- Excellent adhesion to most substrates.
- Extensive choice of colors, textures and patterns.
- Zero VOC – meets LEED point criteria.
- Slip resistance built-in with most application methods.

COVERAGE RATES PER COAT

Theoretical coverage per unit:

One coat Application	500 sq. ft. @ 1/32” (31.25 mils)
Two Coat Application.....	250 sq. ft. @ 1/16” (62.50 mils)
Three Coat Application.....	166 sq. ft. @ 3/32” (93.75 mils)

Vehicular Traffic..... Three coats required.

Approximate Yield/Unit..... 1.25 cu. ft. per mixed kit

Actual consumption rates are dependent on many factors including, but not limited to, substrate texture and porosity, variations in applied thickness and normal allowance for waste.

PACKAGING and COLORS

MPC Liquid Catalyst Component (5-gallon pail)
MPC Regular Powder, Natural Gray or White* (55 lb. bag)
MPC Hard Powder, Natural Gray or White* (55 lb. bag)

*To match Standard Colors requires use of White Powder

MIX RATIO

5Gal Liquid Catalyst: 2-bags of MPC Powder.

SHELF LIFE AND STORAGE

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

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

Working Life	15-60 minutes (temperature 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
Water Absorption Weight gain of 4” coated concrete cube after 21 days water immersion (CMCH)	<2%
Elongation ASTM D412.....	12%
Shore Hardness ASTM D2240.....	Durometer A - 82
Freeze-Thaw Resistance – 50 Cycles	no scaling/peeling/flaking (Concrete cylinders immersed for 8 hrs. in coated saltwater solution followed by 16 hrs. of freezing).
Weathering ASTM G23	No visible degradation (Method I Procedure, 60 cycles)
Resistance to Wind Driven Rain	
Fed. Spec. TT-C-558	(8hrs)
Fed. Spec. TT-C-0035	(24hrs)
At 5” water pressure and 60 gal/hr water flow, no water or dampness noted on back of test panels.	
Resistance to Hydrocarbon Substances	ASTM D1308 (Spot Open Test) No softening or attack – after 21 days repeated re-application of gasoline, SAE-10 motor oil and jet fuel.
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

OVERVIEW OF INSTALLATION STEPS

- **Surface Preparation** - All surfaces to be coated must be clean, sound and free from any bond inhibiting substances including, but not limited to, grease, oil and any other contaminants or loosely adhered materials. For concrete substrates, a minimum surface profile of a 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** – *Miracote MPC Park Deck* must be mixed mechanically using a low-speed drill with a “Jiffy-type” or similar Miracote-approved mixing paddle in a clean mixing container. Pre-mix Liquid Catalyst first to re-disperse any polymer solids that may have settled on the bottom of the pail. When mixing, always pour the liquid catalyst component into the mixing pail first and slowly add the powder component. The mix ratio of powder to liquid may be slightly modified depending on whether a slurry or trowel-grade consistency is desired. Thoroughly mix the material until a uniform smooth consistency is achieved that is free of lumps and pockets of dry powder.

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OVERVIEW OF INSTALLATION STEPS (Continued)

- **Application - Miracote MPC Park Deck** can be applied using a roller, brush, broom, trowel, magic trowel, squeegee or spray equipment. Apply only on properly prepared substrates and be sure that all voids and bug holes are properly filled by working material into the substrate.

FOR BEST RESULTS

- Always install a minimum 4' by 4' test area or job site mock-up for owner approval of acceptable color, texture, finish adhesion and any other critical requirements prior to proceeding with the installation.
- Upon the completion of concrete surface preparation, it is highly recommended to perform in-situ adhesion tests for verification of acceptable substrate tensile strength. Consult ICRI Guideline No. 210.3R-2013 for conducting pull-off tests to evaluate suitable bond of concrete surface materials.
- Prior to application perform concrete surface repair work only with MiraPatch pre-packaged repair mortars.
- Verify that the most current versions of product technical data sheets (PTDS), material safety data sheets (MSDS), and installation guidelines (IG) are being utilized for project submittals and application reference.
- Protect materials from excessive heat and cold.
- Precondition liquid catalyst and powder between 55°F(4.5°C) to 80°F(4.5°C) prior to mixing and application.
- Regularly check wet film thickness with mil gauge and monitor product consumption to ensure correct application thicknesses 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 the purpose of making recommendations. Supervision and quality control are the sole responsibility of the user.
- Measure surface and ambient temperatures to ensure that material is only applied when temperatures are 40°F (4.5°C) and rising during placement and cure time.
- As with concrete and other cementitious or masonry products, surface staining and tire marking may occur. Apply a clear film-forming or penetrating sealer to enhance stain resistance, cleanability and minimize tire marking.
- Natural gray and pigmented cementitious coatings may exhibit color variegation due to fluctuating evaporation rates during cure. For better color consistency, apply a topcoat of MiraGard Colorbond or other Miracote pigmented topcoats.
- Condition the concrete substrate with MiraPrime Aqua-Blok XL to minimize the potential for efflorescence migration and mitigate the corrosion of reinforcing steel at a 95% confidence limit as tested per U.S. Bureau of Reclamation M-82 Standard Protocol to Evaluate the Performance of Corrosion Mitigation Technologies.

LIMITATIONS

- Expect reflection of dynamic cracks and control joints in substrate. Implement detail as per current published installation guidelines (IG's).
- Staining, streaking and efflorescence may occur when fresh coating is exposed to excessive ponding or running water.
- As with all cement-based materials, avoid any contact with aluminum which can cause an adverse reaction due to Miracote MPC's cementitious content. If unavoidable, prime aluminum with MiraPrime Membrane B.
- Concrete structures or elements containing hydrophobic crystalline admixtures may result in substrates that will be difficult to produce acceptable adhesion. Perform in-situ pull-off testing to verify suitable and measurable tensile bond strengths.
- Use extreme caution when resurfacing scaled concrete surfaces in freeze-thaw zones due to the potential for insufficient air-entrainment. These types of unsound surfaces may continue to scale at the bond line due to migration of ground moisture.
- Reported product technical data published in this document is based on controlled laboratory tests conducted in controlled conditions. Actual field installed properties may vary due to climatic conditions, mixing and application methods, equipment, application and curing conditions, and independent test methods.
- After a heavy, pro-longed downpour or following pressure-washing operations concrete substrates should be allowed to sufficiently vacate excess moisture prior to proceeding with the application.

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CAUTION: ALWAYS KEEP OUT OF THE REACH OF CHILDREN.



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