

MIGRATORY CORROSION INHIBITOR™ (MCI®) PRODUCTS FOR CONCRETE



MCI® -2026 Concrete Primer

PRODUCT DESCRIPTION

MCI® -2026 Concrete Primer coating is a proprietary “water-based”, 2-component, epoxy coating system that outperforms and outlasts most solvent-based sealer systems without the associated odors, flammability, or VOC’s. MCI® -2026 Concrete Primer coating meets all of the USDA guidelines for use in federally inspected poultry and meat plants. MCI® -2026 Concrete Primer coating is available in clear and can be colored using MCI-2026 HPCS colorants. MCI® -2026 Concrete Primer coating can be used as a part of MCI® -2026 flooring system or as a top coat.

RECOMMENDED USES

MCI® -2026 Concrete Primer is the recommended primer for most MCI-2026 Flooring Systems. It is also recommended as a stand alone coating in areas that are subjected to medium to heavy traffic and moderate chemical spillage.

FEATURES

- Waterborne
- Solvent-free
- Odorless
- Fast drying time
- Easy Mixing Ratio
- Applies to damp concrete
- VOC compliant
- Moderate chemical resistance
- Good abrasion resistance
- Eliminates concrete dust
- Excellent adhesion
- No induction time
- Good mar resistance
- Cleans easily

COVERAGE

This product should be applied at the rate of approximately 250-350 sq. ft per gallon (6.14 - 8.60m²/l), which is between 6.4 to 4.6 wet mils (163 - 116.84 μm/y wet). As with all coatings, coverage is dependent on the smoothness and porosity of the surface. As a primer, the coverage rate should be 250 sq.ft. per gallon (6.14m²/l).

SURFACE PREPARATION

The substrate must be clean, dry and sound with new concrete cured for at least 30 days at 70°F (21°C). Remove dust, laitance, grease, curing compounds, waxes, foreign particles, disintegrated or soft base materials, and any previously applied potentially incompatible coatings. Create a surface profile on concrete by either steel shot blasting or acid etching.

FOR BEST RESULTS

- For interior use only
- New concrete must cure for at least 30 days at 70°F (21°C)
- Do not thin the MCI® -2026 Concrete Primer coating
- Do not use when Humidity Exceeds 70% indoors
- Do not allow material to puddle during application
- Allow each coat to dry tack-free before recoating
- Allow each coat within 24 hours of previous coat
- Discard any material subjected to freezing
- Do not apply to structurally unsound surfaces
- Do not apply heavier than recommended wet film thickness
- Apply a test patch to ensure adhesion to old paint

MIXING

Avoid mixing and application of this product if the floor temperature is below 55°F (13°C) or above 85°F (29°C). Also avoid application if the humidity is higher than 70% R.H. or lower than 25%. The temperature of the floor, materials and air in the area of the installation all play a role in how the product will apply and cure. For 3/4 gallon (2.8L) and 6 gallon (22.71L) units: carefully pour entire contents of Part B container into Part A container. Do not change the ratio of A and B. Blend thoroughly for 3 to 5 minutes with a spiral mixing blade attached to a low-speed (400-600 rpm) electric drill. Take care not to induce air into the material when mixing. This will cause “bubbles” in the coating when applied. For bulk units: portion out 2 gallons (7.57L) of



Part A and 1 gallon (3.785L) of Part B into a clean 5 gallon (19L) pail. Blend in accordance with directions stated above.

APPLICATION

The recommended application of this product involves pouring it in a narrow line directly onto the concrete surface and then spreading it with a squeegee. Spread the coating in a continuous manner from one side of the area being coated to the other. Immediately follow with a 3/8" (0.95cm) nap shed resistance roller. The MCI® -2026 Concrete Primer coating must be rolled as evenly as possible. To do this, roll forward in a straight line and then roll the same column backwards to eliminate spike shoe marks. Overlap the next column to be rolled by 1/2" (1.27 cm) with the previously rolled column. Avoid excess agitation of the liquids with the roller. This will lessen chances of bubbling of the final film.

POT LIFE

At 75°F (24°C) and 50% R.H. the MCI® -2026 Concrete Primer has a useful working time or pot life of approximately 30-40 minutes. Using any product beyond this time will result in variable results and therefore any mixed product beyond the pot life should be discarded.

FOR INDUSTRIAL USE ONLY

KEEP OUT OF REACH OF CHILDREN

KEEP CONTAINER TIGHTLY CLOSED

NOT FOR INTERNAL CONSUMPTION

CONSULT MATERIAL SAFETY DATA SHEET FOR MORE INFORMATION

PHYSICAL PROPERTIES

Property	Typical Values
Shelf Life	2 years
Application Temperature and Humidity	55°F (13°C) to 85°F (29°C) at less than 70% R.H.
Mixing Ratio (A to B)	Clear: 2 to 1 by volume, 1.8 to 1 by weight Gray: 2 to 1 by volume, 2 to 1 by weight
Coverage	250-350 sq. ft per gallon
Working Time	35 minutes at 75°F(24°C)
Application Method	Straight Squeegee and 3/8" Nap Roller
Ready for Recoat	2-5 hours
Ready for Foot Traffic	7-12 hours
Ready for Heavy Traffic	24+ hours
Bond Strength	400+ psi w/ concrete failure (ASTM D-4541)
% Solids by volume	52% (ASTM D-1464)
Flash Point, PMCC	>200°F (93°C)
UV Light Resistance	Good (QUV)
Hardness (Shore D)	80+ (ASTM D-2240)
VOC	11 g/l (EPA Method 24)
Gloss (60°)	75 (50 for satin)
Impact Resistance	>160 in-lbs (ASTM D-2794)
Indentation	None (MIL-D-3134F)
Abrasion Resistance	0.06 g (ASTM D-4060, CS-17 wheel)
Flammability	Self-Extinguishing (ASTM D-635)
Heat Resistance Limitation	140°F (60°C) Constant 200°F (93°C) Intermittent
Water Absorption	0.2% (ASTM C-413)
Coefficient of Friction	0.77 (ASTM F-609)

PACKAGING

Size	Packaging	Ship Wt	Description
0.75 gallon (2.8L)	Small One Batch Unit	8.4 Lbs (3.8 kg)	One Hardener Container and One Resin Container, packaged in a Single Carton
3.0 gallon (11.36L)	3 Gallon Kit	30 Lbs (13.61 kg)	One Bag of Hardener and One Bag of Resin, packaged in a mixing/shipping pail, with tear-strip lid
6.0 gallon (22.7L)	Large Two Batch Unit	60 Lbs (27.22 kg)	Two Hardener Containers packaged in One Carton Plus Two Loose 4.25 or 5-Gal Pails of Resin
15.0 gallon (56.8L)	3x5 Gal Pail Bulk Unit	140 Lbs (63.51 kg)	One 5-Gal Pail of Hardener and Two 5-Gal Pails of Resin
165.0 gallon (624.5L)	3x55 Drum Bulk Unit	1600 Lbs (725.87 kg)	One 55-Gal Drum of Hardener and Two 55-Gal Drums of Resin

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