

MIGRATORY CORROSION INHIBITOR (MCI®) PRODUCTS FOR CONCRETE



MCI®-2026 Floor Coating

PRODUCT DESCRIPTION

MCI®-2026 Floor Coating is a 100% solids, 2-component, novolac epoxy coating designed for environments that require a high degree of chemical or temperature resistance, or subjected to heavy traffic. MCI®-2026 Floor coating meets all of the USDA guidelines for use in federally inspected poultry and meat plants. MCI®-2026 Floor coating is available in clear, and can be colored with any of the MCI®-2026 HPCS colorants.

FEATURES

- 100% solids
- Solvent-free
- Odorless
- Extensive range of colors using MCI®-2026 HPCS colorants
- Gloss finish
- Can be made anti-slip
- VOC compliant
- Excellent Chemical Resistance
- Good Abrasion Resistance
- Single or multiple coat application
- No induction time

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 Floor coating
- Do not use when Humidity Exceeds 75% 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
- Prime bare concrete with MCI®-2026 Primer
- Apply a test patch to ensure adhesion to old paint

PRIMING

The use of Cortec's MCI®-2020 surface applied corrosion inhibitor is an excellent complement to the system. If MCI®-2020 is to be used, it must be applied prior to the MCI®-2026 Concrete Primers. Also, MCI®-2020 must have 8-24 hours to penetrate concrete and a water rinse to remove any residue before primers are applied.

Before using MCI®-2026 Floor Coating, prime the prepared concrete floor with MCI®-2026 Primer HS or MCI®-2026 Primer.

Allow the MCI®-2026 Concrete Primers to dry thoroughly before mixing and applying the next coating. The primed floor should be tack-free and clear in appearance. This will vary with temperature and humidity but is normally between 2-5 hours at 75°F (24°C) and 50% R.H. Please see individual product data sheets for coverage rates and detailed application instructions.

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 75% R.H. 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 0.6 gallon (2.27L) and 2.5 gallon (9.5L) units: carefully pour entire contents of Part A container into Part B container.

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 1 gallon (3.8L) of Part A and 1.5 gallons (5.7L) of Part B into a clean 5 gallon (19 L) pail. Blend in accordance with directions stated above.



COVERAGE

This product should be applied at the rate of approximately 125-150 sq. ft per gallon (3.06 m²/L), which is between 11 to 13 wet mils (279.4 - 330.2µm/y wet). As with all coatings, coverage is dependent on the smoothness and porosity of the surface.

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 Floor 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" (1.27cm) with the previously rolled column. Avoid excess agitation of the liquids with the roller. This will lessen chances of bubbling of the final film. The individual(s) applying the MCI®-2026 Floor coating should be wearing "spiked sandals".

POT LIFE

At 70°F (21°C) and 50% R.H. the MCI®-2026 Floor coating has a useful working time or pot life of approximately 25 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 75% R.H.
Mixing Ratio (A to B)	Clear: 1 to 1.5 by volume, 1 to 1.7 by weight Gray: 1 to 1.57 by volume, 1 to 1.9 by weight
Coverage	125-150 sq. ft per gallon
Working Time	25 minutes at 70°F (21°C)
Application Method	Straight Squeegee and 3/8" (0.95cm) nap Roller
Ready for Recoat	6-8 hours
Ready for Foot Traffic	12-18 hours
Ready for Heavy Traffic	24+ hours
Bond Strength	400+ psi w/ concrete failure (ASTM D-4541)
% Solids by volume	100% (ASTM D-1464)
Flash Point, PMCC	> 200°F (93°C)
UV Light Resistance	Very Good (QUV)
Hardness (Shore D)	82+ (ASTM D-2240)
VOC	12 g/l (EPA Method 24)
Gloss (60°)	90+
Impact Resistance	> 160 in-lbs (ASTM D-2794)
Indentation	None (MIL-D-3134F)
Abrasion Resistance	0.08 g (ASTM D-4060, CS-17 wheel)
Flammability	Self-Extinguishing (ASTM D-635)
Heat Resistance Limitation	180°F (82°C) Constant 212°F (100°C) Intermittent
Water Absorption	0.15% (ASTM C-413)
Coefficient of Friction	0.72 (ASTM F-609)

PACKAGING

Size	Packaging	Ship Wt
2.5 gallon (19L)	Large One Batch Unit	26.62 lbs (12.1 kg)
12.5 gallon (47.3L)	3x5-Gal Pail Bulk Unit	136 lbs (61.69 kg)
138.0 gallon (522.3L)	3x55-Gal Bulk Unit	1,490 lbs (675.82 kg)

Packaging Type	Packaging Description
Large One Batch Unit	One gallon Hardener container plus 1.5-gal Resin container packaged in a single carton
3 x 5-Gal Bulk Unit	One 5-gal pail of Hardener and Two 5-gal Pails of Resin
3 x 55-Gal Bulk Unit	One 55-gal Drum of Hardener and Two 55-gal Drums of Resin

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