

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. 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.

RECOMMENDED USES

MCI-2026 Floor coating is recommended as a high performance coating in areas that are subjected to heavy traffic, chemical spillage, and/or elevated temperatures.

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

For optimum results, prime the prepared concrete floor first with MCI-2020 inhibitor and MCI-2026 Primer. They can be applied at the rate of 250-300 sq. ft. per gallon (6.14-7.36m²/L). On rougher areas and shot-blasted floors, the coverage rates will be reduced to about 225-250 sq. ft. per gallon (5.52-6.14m²/L).

Allow the MCI-2026 Concrete Primer 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.

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 25 minute 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" (0.95 cm) 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) |
| Part A WPG | 8.6-8.9 lb/gal (1.03-1.07 kg/l) |
| Part B WPG | 9.6-9.9 lb/gal (1.15-1.18 kg/l) |

PACKAGING

| Size | Packaging | Ship Wt | Description |
|--------------------|---------------------------|-----------------------|--|
| 2.5 gal (9.5L) | Large one batch unit | 26.2 lbs (12.1 kg) | One gallon hardener container plus 1.5 gal resin container packaged in a single carton |
| 12.5 gal (47.3L) | 3 x 5 gal pails bulk unit | 136 lbs (61.69 kg) | One 5 gal pail of hardener and Two 5 gal pails of resin |
| 138.0 gal (522.3L) | 3 x 55 gal bulk unit | 1,490 lbs (675.82 kg) | One 55 gal drum of hardener and Two 55 gal drums of resin |

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