

MCI® Coating for Rebar

PRODUCT DESCRIPTION

MCI® Coating for Rebar provides excellent protection in outside storage as well as offering superior corrosion resistance for embedded rebars. This product is water based and environmentally friendly.

The recommended dry film thickness range is 1-2 mils (25-50 microns). As a soft film, MCI® Coating for Rebar is an excellent choice for long-term indoor protection (up to 5 years*) and short to medium-term (6-24 months*) unsheltered outdoor protection. The product cures to a soft film and eventually hardens. MCI® Coating for Rebar has been tested for adhesion to concrete in accordance with ASTM A 775/A 775 M and showed positive results, confirming that MCI Coating for Rebar does not have to be removed prior to embedding in concrete (see Table 2).

PACKAGING AND STORAGE

MCI® Coating for Rebar is available in 5 gallon (19 liter) pails, 55 gallon (208 liter) metal drums, liquid totes and bulk. Do not allow product to freeze.

Shelf Life: 12 months at 75°F (24°C) in a sealed drum.



WHERE TO USE

- Protection of rebar partially embedded in concrete
- Jobsite/warehouse storage
- Processing protection
- Overseas shipping
- Maintenance repairs

ADVANTAGES

- Excellent outdoor protection
- Protects steel, aluminum, cast iron, and tin
- Safe and easy to use
- Environmentally friendly
- Does not affect concrete adhesion to rebar
- Dilutable with water
- Can be removed by using an alkaline cleaner such as MCI-2060 if needed
- Works in SO₂ and H₂S environments

PHYSICAL PROPERTIES

Appearance	Off-white to beige viscous liquid
Dry to Recoat Time	30-90 minutes@72°F(22°C), 55% RH
Dry to Tacky Time	10-60 minutes@72°F(22°C), 55% RH
Dry to Cure Time	1-3 hours@72°F(22°C), 55% RH
Film Type	Soft, tacky

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Non-volatile Content	27-33%
Theoretical Coverage	280-561 ft2/gal at 1-2 mil DFT (7-14 m2/l at 25-50 microns)
VOC (regulatory)	0.29 lb/gal (34.3 g/l)
VOC (actual)	0.22 lb/gal (25.84 g/l)
Density	8-8.3 lb/gal (0.95-1.01 kg/l)
pH	9-10 (neat)

Table 1: Corrosion Protection Properties

Test Method	DFT*	SAE 1010 Carbon Steel
ASTM D1748 Humidity	1-mil (25 microns)	1000+ hr.
ASTM G 85-94 Prohesion	1-mil (25 microns)	600 hr.
ASTM B117 Salt Spray	1-mil (25 microns)	200 hr.
ASTM B117 Salt Spray	2-mils (50 microns)	600 hr.

**Dry Film Thickness. Coverage at 1 mil is 280 ft2/gal
Coverage at 2 mil is 561 ft2./gal*

Table 2: Adhesion to concrete results
(ASTM A 775/A 775M)

Test No	Pounds of Force*	
	Coated with MCI® Coating for Rebar	Uncoated
1a	2,660 @ free-end	----
1b	2,480 @ loaded-end	----
1c	2,660 @ free-end	----
2a	----	2,600 @ loaded-end
2b	----	2,670 @ loaded-end
2c	----	3,040 @ loaded-end

**Data indicates the smaller of the pounds of force required to move the embedded rebar either 0.002" as measured at the free-end or 0.010" at the loaded-end.*

Product Cleanup

Use soapy water to clean up tools and overspray.

APPLICATION CONSIDERATIONS

MCI Coating for Rebar should be completely dry before placing the part into storage.

APPLICATION

Surface must be equivalent to ARS Low A-3 and higher or SSPCs 1, 2, 3, 5, 6, and 10 depending on the metal.

Mix MCI Coating for Rebar well prior to use. MCI Coating for Rebar can be used "as is" or diluted with water up to 50%, as long as a 1.0-2.0 mils (25-50 microns) dry film thickness is reached on surface to be protected. It can be applied by spray, brush, roll, or dip.

Airless Spray:

Pressure	2000 psi (140 bar)
Filter	60 mesh
Tip	0.015" (0.038 cm)
Dilution	(0-50%)

Conventional:

Equipment	Binks 18 gun or equivalent
Automatization pressure	40 psi (3 bar)
Fluid pressure	20 psi (1 bar)
Cap/Tip	66/S
Dilution	(10-50%)

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