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).

*Depends on conditions and/or film thickness

FEATURES

- 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 SO_2 and H_2S environments

TYPICAL APPLICATIONS

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

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
Non-volatile Content	27-33%
Shelf Life	12 months at 75°F (24°C) in a sealed drum
Theoretical Coverage	280-561 ft^2/gal at 1-2 mil DFT (7-14 m^2/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 ft^2/gal
Coverage at 2 mil is 561 ft^2/gal

MCI® MIGRATING CORROSION INHIBITORS
FROM GREY TO GREEN

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.

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.

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%)

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

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