

MIGRATORY CORROSION INHIBITOR (MCI®) PRODUCTS FOR CONCRETE



MCI® Coating for Rebars



Uncoated

Coated

PRODUCT DESCRIPTION

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

The recommended film thickness range is 0.2-1.0 mils (5-25 microns). As a soft film, MCI® Coating for Rebars 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 Rebars has been tested for adhesion to concrete in accordance with ASTM A 775/A 775 M and showed positive results, which confirmed that MCI® Coating for Rebars 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
- Multimetal protection
- Safe and easy to use
- Environmentally friendly
- Does not affect concrete adhesion to rebar

TYPICAL APPLICATIONS

- Processing protection
- Overseas shipping
- Maintenance repairs
- Storage
- Protection for rebars embedded in concrete

PROPERTIES

Appearance	Off-white to beige viscous liquid
Dry to Recoat Time	30-90 minutes
Dry to Tacky Time	10-60 minutes
Dry to Cure Time	1-3 hours
Film Type	Soft, tacky
Non-volatile Content	27-33%
Shelf Life	12 months at 75°F (24°C)
Theoretical Coverage	530-690 ft ² /gal at 1-mil (14-17 m ² /l at 25 microns)
VOC	0.95 lb/gal (113 g/l)
Density	8.0-8.3 lb/gal (0.96-0.99 kg/l)

Table 1
Corrosion protection Properties

Test Method	DFT*	SAE 1010 Carbon Steel
ASTM D1748	1-mil (25 micron)	1000+ hr.
ASTM G 85-94	1-mil (25 micron)	600 hr.
ASTM B117	1 mil (25 micron)	200 hr.

*Dry Film Thickness

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

Test No	Pounds of Force*	
	Coated with VpCI-389	Uncoated
1a	2,660 @ free-end	-----
1b	2,480 @ load-end	-----
1c	2,660 @ free-end	-----
2a	-----	2,600 @ loaded-end
2b	-----	2,670 @ loaded-end
2c	-----	3,040 @ loaded-end

*The data below 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.



APPLICATION

Mix MCI® Coating for Rebars prior to use. 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)

Conventional:

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

PROTECTION PROPERTIES

Brush Nylon/polyester or nylon (dilution 0-50%)
Roller Polyester knitted (dilution 0-50%)

Product Cleanup:

Use water to clean up tools and overspray.

LIMITATIONS

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

PACKAGING AND STORAGE

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

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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