

# Cortec's MCI<sup>®</sup> Coating for Rebar - Superior Corrosion Resistance for Reinforcing Metal!

Cortec's MCI<sup>®</sup> (Migratory Corrosion Inhibitor) Coating for Rebar is water based, environmentally friendly product that provides corrosion protection in outside storage as well as offering powerful corrosion resistance for embedded rebars. As a soft film, MCI<sup>®</sup> 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.

Cortec's patented MCI<sup>®</sup> technology superiorly protects reinforcing metal in concrete from corrosion. MCI<sup>®</sup>s rehabilitate existing concrete structures as well as extending the life span of new structures. Corroding rebar in deteriorating concrete often causes costly repairs, financial

losses and even worse, hard injuries. MCI<sup>®</sup> technology is the best prevention of these problems available on the market today.

Cortec<sup>®</sup> MCI<sup>®</sup> products for concrete maintain structural integrity, rehabilitate vulnerable structures and alleviate environmental concerns. A unique feature of MCI<sup>®</sup> is that the inhibitor will migrate a considerable

distance through concrete to protect embedded ferrous metals.

MCI<sup>®</sup> Coating for Rebar protects steel, aluminum, cast iron and tin. It is dilutable with water and does not affect concrete adhesion to rebar. This safe to use inhibitor cures to a soft film and eventually hardens.

The recommended dry film thickness range is 25-50





microns (1-2 mils). It can be removed by using an alkaline cleaner such as MCI-2060 if needed the coating works well in SO<sub>2</sub> and H<sub>2</sub>S environment.

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

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### 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-mil (50 microns)	600 hr.

\*Dry Film Thickness. Coverage at 1 mil is 280 ft<sup>2</sup>/gal



### 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	----	2600 @ loaded-end
2b	----	2670 @ loaded-end
2c	----	3,040 @ loaded-end

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.

### TYPICAL APPLICATIONS

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