

# MIGRATORY CORROSION INHIBITOR (MCI®) PRODUCTS FOR CONCRETE



## MCI®-2005 Patented



### PRODUCT DESCRIPTION

MCI®-2005 is a liquid concrete admixture that protects steel reinforcing, carbon steel, galvanized steel and other metals embedded in concrete from corrosion induced by carbonation, chloride and atmospheric attack. MCI®-2005 protects by a time-proven migratory corrosion inhibitor function. In addition, it contains a proven contact inhibitor. When incorporated into the concrete mix, Migrating Corrosion Inhibitors (MCI®) seek out and form a corrosion inhibiting protective layer on metals. When used with repair mortars and grouts, MCI®-2005 will migrate to undisturbed concrete providing effective corrosion protection to rebars already in place.

### TYPICAL USES

MCI®-2005 is recommended for:

- All reinforced, precast, prestressed, post-tensioned or marine concrete structures
- Steel-reinforced concrete bridges, highways and streets exposed to corrosive environments (carbonation, deicing salts and atmospheric attack)
- Parking decks, ramps and garages
- All reinforced marine concrete structures
- Concrete piers, piles, pillars, pipes and utility poles
- Restoration and repair of all reinforced concrete commercial and civil engineered structures

### ADVANTAGES

- Offers engineers, owners, contractors, DOTs and government agencies a time-proven corrosion inhibiting technology that will extend the life of all reinforced concrete structures
- Protects against the harmful effects of corrosion even in the densest concrete
- Does not affect the air entrainment or strength of the concrete mix
- Required dosage is not affected by chloride concentration
- Does not contain any calcium nitrite
- Water-based and non-flammable
- Organic, safe and environmentally friendly
- Lab and field tested worldwide
- Concentrated for cost effectiveness on all projects
- Protects both anodic and cathodic areas
- NSF Standard 61 approved for potable water applications (certified by Underwriters Laboratories)

### DOSAGE

Add MCI®-2005 to concrete mix or repair mortars and grouts at 1 pt/yd<sup>3</sup> (0.6 l/m<sup>3</sup>).

### APPLICATION

MCI®-2005 can be added to concrete at the ready-mix plant, directly to the ready-mix truck drum, to portable mixers, or directly into repair mortars. Mix concrete and mortars thoroughly.

### LIMITATION

MCI®-2005 can retard the setting time up to 4 hours compared to a control. Standard, commercial, non-chloride accelerators can be used to adjust the set time if needed.

## TYPICAL PROPERTIES

Appearance	Clear dark brown liquid
pH	8.5-9.3 (Neat)
Non-volatile Content	44-50%
Density	9.5-10.3 lb/gal (1.14-1.23 kg/l)
Storage Temperature	Minimum 32°F (0°C) Maximum 212°F (100°F)

## PACKAGING AND STORAGE

MCI®-2005 is available in 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk. The shelf life of MCI®-2005 is 12 months in a sealed drum. 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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