

# MIGRATORY CORROSION INHIBITOR™ (MCI®) PRODUCTS FOR CONCRETE



## MCI®-2005 AL



### PRODUCT DESCRIPTION

MCI®-2005 AL 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 AL 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 AL will migrate to undisturbed concrete providing effective corrosion protection to rebar already in place.

### FEATURES

MCI®-2005 AL 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 in different types of concrete
- Required dosage is not affected by the chloride concentration
- Does not contain calcium nitrite
- Non-hazardous and non-toxic

- Safe and environmentally friendly
- Technology is lab and field proven worldwide
- Concentrated for cost effectiveness on all projects
- Protects both anodic and cathodic areas
- Will migrate to adjacent areas to protect metals

### TYPICAL USES

MCI®-2005 AL 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
- Can be added either to the water or powder on-site for shotcreting applications
- Can be added into a manufacturer's repair mortar formulation to enhance its corrosion protection ability
- NSF Standard 61 approved for potable water applications (certified by Underwriters Laboratories)

MCI®-2005 AL should be used when there are freezing or very high temperatures expected during storage, and also in the projects where the presence of sodium should be minimized.

### DOSAGE

Add MCI®-2005 AL to concrete mix at the rate of 1.5 pts/yd<sup>3</sup> (1l/m<sup>3</sup>).



## APPLICATION

MCI®-2005 AL can be added to the mix water or to concrete powder at the ready-mix plant, directly into a ready-mix truck drum or in portable mixers. Concrete should be mixed thoroughly.

## TYPICAL PROPERTIES

Appearance	Yellow to amber liquid
pH	9-10 (1% solution)
Non-volatile Content	30-35%
Density	9.2-9.3 lb/gal (1.10-1.11 kg/l)

## PACKAGING AND STORAGE

MCI®-2005 AL is available in 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk. The shelf life is 24 months in a sealed container. 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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