

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/yd³ (0.6 l/m³).

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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