

MIGRATORY CORROSION INHIBITOR™ (MCI®) PRODUCTS FOR CONCRETE



MCI®-2005 NS



PRODUCT DESCRIPTION

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

FEATURES

MCI-2005 NS 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 NS 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)

DOSAGE

Add MCI-2005 NS to concrete mix at the rate of 1.5 pts/yd³ (1l/m³).

APPLICATION

MCI-2005 NS 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	Dark brown liquid
pH	11-12 (1% solution)
Non-volatile Content	25-30%
Density	9.9-10 lb/gal (1.19-1.20 kg/l)

PACKAGING AND STORAGE

MCI-2005 NS 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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