

# MIGRATORY CORROSION INHIBITOR (MCI®) PRODUCTS FOR CONCRETE



## MCI®-2020



### PRODUCT DESCRIPTION

MCI® -2020 is a surface applied corrosion inhibitor designed to migrate through even the densest concrete structures and seek out the steel reinforcement bars in concrete. MCI® -2020 also protects a multitude of metals including carbon steel, galvanized steel and aluminum. The unique feature of Migrating Corrosion Inhibitors™ (MCI®) is that if not in direct contact with metals, the inhibitor will migrate a considerable distance through concrete to provide protection. MCI® -2020 will stop further corrosion of reinforcing metals and extend the service life of the structure. A high viscosity version of MCI® -2020 is available: MCI® -2020 V/O, specifically designed for vertical and overhead applications.

### WHERE TO USE

MCI® -2020 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
- Preventive maintenance of all reinforced concrete commercial and civil engineered structures

- Concrete piers, dams, offshore platforms, piles, pillars, pipes and utility poles
- Restoration and repair of all reinforced concrete commercial and civil engineered structures
- Plant floors subject to chemical and/or acid attack
- Buildings and foundations of all types
- Cooling towers and portable water tanks

### ADVANTAGES

- MCI® -2020 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 by migrating into even in the densest concrete
- Migrating corrosion inhibitors reduce further corrosion of the most rusted metals
- Easily applied by spray, roller, squeegee or paint brush to any concrete surface, reducing the high cost of labor and equipment
- Does not contain any calcium nitrite
- Water-based and non-flammable for easy handling
- Does not require the removal of sound concrete
- Organic, safe and environmentally friendly
- Enhances the durability of reinforced concrete
- Lab and field tested worldwide
- Allows concrete to breathe and vapor to diffuse, is not a vapor barrier
- Protects both anodic and cathodic areas
- Proven effective in the Strategic Highway Research Program (SHRP) funded by the federal government and state DOTs
- NSF Standard 61 approved for potable water applications (certified by Underwriters Laboratories)
- Confirmed effective in international documented field evaluation (ASTM G-109, JIS, Korean, etc.)
- Proven to migrate to adjacent areas to protect surrounding metals
- No cure time is required. Traffic may resume minutes after application, if necessary
- Available in high viscosity form for hard-to-reach or vertical surfaces



## COVERAGE

150 ft<sup>2</sup>/gallon(3.68m<sup>2</sup>/liter) . Dense substrates may require two coats at the rate of 300 ft<sup>2</sup>/gallon(7.36m<sup>2</sup>/liter)

## PACKAGING

MCI® -2020 and MCI® -2020 V/O is available in 5 gallon (19 liter) pails and 55 gallon (208 liter) drums.

## SURFACE PREPARATION

Surface should be dry, sound, clean and free of all dirt, oil, grease efflorescence, sealers, coatings, membranes and asphalt. Cleaning may be done by steam cleaning, water-blasting or sandblasting.

## APPLICATION

Apply the solution by spray (conventional airless or hand pressure spray equipment), roller, squeegee or paint brush to any concrete surface. Dense substrates may require two coats with a minimum of 8 hours between coats. When applying a sealer, coating, repair mortar or concrete overlay, the surface should be rinsed with water, pressure washed or blast-cleaned to remove any residue.

## LIMITATIONS

The substrate and ambient temperature should be above freezing and below 125°F (50°C). Do not apply if the temperature is expected to fall below freezing within 12 hours. MCI® will not penetrate film-forming sealers, coatings, paints, membranes or asphalt.

## 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**

## PHYSICAL PROPERTIES

MCI® -2020

Appearance

pH

Density

Storage/Shelf Life

Storage

Clear to slightly hazy amber liquid

9.0-9.5 (Neat)

8.6-8.8 lb/gal (1.03-1.05 kg/l)

24 months in sealed drums

Minimum 32°F (0°C)

Maximum 212°F (100°C)

*Do not freeze*

MCI® -2020 V/O

Appearance

pH

Non-volatile Content

Density

Storage/Shelf Life

Storage

Clear yellow viscous liquid

9.0-9.7 (Neat)

20-27%

8.6-8.8 lb/gal (1.03-1.05 kg/l)

24 months in sealed drums

Minimum 32°F (0°C)

Maximum 212°F (100°C)

*Do not freeze*

## LIMITED WARRANTY

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