

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 ft²/gallon(3.68m²/liter) . Dense substrates may require two coats at the rate of 300 ft²/gallon(7.36m²/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 Clear to slightly hazy amber liquid
pH 9.0-9.5 (Neat)
Density 8.6-8.8 lb/gal (1.03-1.05 kg/l)
Storage/Shelf Life 24 months in sealed drums
Storage Minimum 32°F (0°C)
Maximum 212°F (100°F)
Do not freeze

MCI® -2020 V/O

Appearance Clear yellow viscous liquid
pH 9.0-9.7 (Neat)
Non-volatile Content 20-27%
Density 8.6-8.8 lb/gal (1.03-1.05 kg/l)
Storage/Shelf Life 24 months in sealed drums
Storage Minimum 32°F (0°C)
Maximum 212°F (100°F)
Do not freeze

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