

MIGRATORY CORROSION INHIBITOR (MCI®) PRODUCTS FOR CONCRETE



MCI®-2020 M

MCI®-2020 M V/O



PRODUCT DESCRIPTION

MCI®-2020 M is a surface-applied corrosion inhibitor designed to migrate through even the densest concrete structures and seek out steel reinforcing bars embedded in concrete. MCI®-2020 M also protects a multitude of other metals, including carbon steel and aluminum. MCI®-2020 M provides effective protection to reinforcing steel due to enhanced film-forming properties. MCI®-2020 M reduces further corrosion on reinforcing metals and extends the service life of the structure. A high viscosity version of MCI®-2020M is available: MCI®-2020 M V/O specifically designed for vertical and overhead application.

WHERE TO USE

MCI®-2020 M is recommended for:

- All reinforced, precast, prestressed, post-tensioned or marine concrete structures
- Steel reinforced concrete bridges, highways and streets exposed to corrosion 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
- Buildings and foundations of all types

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 in high concentration of chloride
- Protects against the harmful effects of corrosion by migrating into even the densest concrete
- Protection properties do not depend on chloride concentration level
- Provides some sealing properties to concrete
- The migratory inhibitor reduces active corrosion of metals in high chloride environments
- 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
- Concentrated for cost effectiveness on all projects
- Allows concrete to "breathe" and vapor to diffuse, is not a vapor barrier
- Protects both anodic and cathodic areas
- Proven to migrate to adjacent areas to protect surrounding metals
- No cure time is required - traffic may resume minutes after application if necessary
- NSF Standard 61 approved for potable water applications (certified by Underwriters Laboratories)



COVERAGE

Coverage after dilution is 150 ft²/gal (3.68 m²/l). Dense substrates may require 2 coats at the rate of 300 ft²/gal (7.36 m²/l).

MIXING INSTRUCTIONS

Mix 1 part MCI®-2020 M concentrate to 1 part tap water at ambient temperature. Mix at low to medium speed until fully blended.

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 MCI®-2020 M by spray (conventional airless or hand pressure spray equipment), roller, squeegee or paint brush to any concrete surface. Dense substrates may require two (2) coats with a minimum of 7½ hours between coats. MCI® Architectural Coating can be applied without rinsing. However, if the MCI®-2020 M was overdosed, rinse it with water, pressure wash or blast clean before applying the MCI® Architectural Coating. A water rinse is required before application of any other coatings.

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

LIMITATIONS

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

PHYSICAL PROPERTIES

MCI®-2020 M

Appearance	Clear to hazy yellow to amber liquid
pH	9-10.5 (1% aqueous)
Density	8.8-8.9 lb/gal (1.05-1.07 kg/l)

MCI®-2020 M V/O

Appearance	Clear yellow viscous liquid
pH	9-10.9 (neat)
Non-volatile content	13-18
Density	8.8-8.9 lb/gal (1.05-1.07 kg/l)

PACKAGING AND STORAGE

MCI®-2020 M and MCI®-2020 M V/O are available in 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk. Keep from freezing. Shelf life is 24 months in a sealed drum.

LIMITED WARRANTY

All statements, technical information and recommendations contained herein are based on tests Cortec Corporation believes to be reliable, but the accuracy or completeness thereof is not guaranteed.

Cortec Corporation warrants Cortec® products will be free from defects when shipped to customer. Cortec Corporation's obligation under this warranty shall be limited to replacement of product that proves to be defective. To obtain replacement product under this warranty, the customer must notify Cortec Corporation of the claimed defect within six months after shipment of product to customer. All freight charges for replacement products shall be paid by customer.

Cortec Corporation shall have no liability for any injury, loss or damage arising out of the use of or the inability to use the products.

BEFORE USING, USER SHALL DETERMINE THE SUITABILITY OF THE PRODUCT FOR ITS INTENDED USE, AND USER ASSUMES ALL RISK AND LIABILITY WHATSOEVER IN CONNECTION THEREWITH. No representation or recommendation not contained herein shall have any force or effect unless in a written document signed by an officer of Cortec Corporation.

THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE. IN NO CASE SHALL CORTEC CORPORATION BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.



Distributed by:

4119 White Bear Parkway, St. Paul, MN 55110 USA
Phone (651) 429-1100, Fax (651) 429-1122
Toll Free (800) 4-CORTEC, E-mail info@cortecvci.com
Internet <http://www.CortecVCI.com>

printed on recycled paper  100% post consumer

Revised 12/01/06. Cortec Corporation 2001-2006. All rights reserved. Supersedes: 8/25/03
MCI® Migrating Corrosion Inhibitor is a trademark of Cortec Corporation.