



Surface Treatment

MIGRATORY CORROSION INHIBITOR (MCI®) PRODUCTS FOR CONCRETE



MCI®-2019 W/MCI®-2019 W FD

PRODUCT DESCRIPTION

MCI-2019 W is a one component, VOC compliant, clear, penetrating, breathable 40% water-based silane sealer, containing Cortec's migrating corrosion inhibitor technology. The sealer is composed of a stable 40% alkylalkoxy silane emulsion in water. MCI-2019 W is specifically developed to protect new and existing concrete structures against the damaging effects of moisture intrusion, freeze/thaw scaling, and chloride-ion (salt) intrusion.

MCI-2019 W will penetrate the concrete and provide water repellency by chemically reacting with the cementitious substrate under proper application. Treated substrates are hydrophobic and retain their original appearance. MCI-2019 W is also available with a fugitive dye to aid in applications as MCI-2019 W FD.

MCI-2019 W's unique feature is its Migratory Corrosion Inhibitor action that allows this product to migrate through even the densest concrete structures. It seeks out embedded steel reinforcing bars to form a protective, monomolecular corrosion inhibiting coating.

APPLICATION

Application to horizontal surfaces should be done in a flooding action using a low-pressure sprayer. Normal coverage rates are 125 - 175 ft²/gal (3.0 - 4.3 m²/l). Allow to fully dry before opening to traffic. For application to vertical surfaces, apply MCI-2019 W to saturation with a low-pressure sprayer. Start at the bottom of the wall and work up.

Surfaces should be free of standing water, surface dirt, dust, oils, cured materials, and other contaminants prior to application. MCI-2019 W should be applied to clean, dry surfaces. Surface, air, and material temperatures should be between 40-120°F (4-49°C) during application.

If a coating will be used over MCI-2019 W, a 7 day period is recommended before coating, and a compatibility test should also be performed.

TYPICAL USES

- Commercial Buildings
- Parking Decks/Garages
- Highways
- Bridge structures

ADVANTAGES

- MCI-2019 W 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 the densest concrete
- Migratory inhibitor reduces 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
- Non-toxic, contains no nitrites, phosphates, or chromates
- MCI-2019 W silane sealer molecules are very small, allowing penetration into the smallest concrete pores
- Enhances the durability of reinforced concrete and increases surface abrasion resistance
- Blocks carbonation and chloride ion intrusion
- Allows concrete to breathe and vapor to diffuse; is not a vapor barrier
- Helps protect against acid and chemical attack
- No blushing, peeling, or yellowing
- Resistant to alkali attack



MIGRATING CORROSION INHIBITORS
FROM GREY TO GREEN

PHYSICAL PROPERTIES

MCI-2019 W

Appearance	Milky White Liquid
pH	10.3-11.3 (neat)
Density	7.9-8.1 lb/gal (0.95-0.97 kg/l)
VOC	<250 g/l

MCI-2019 W FD

Appearance	Blue Green Liquid
pH	10.3-11.1 (neat)
Density	7.6-8.1 lb/gal (0.91-0.97 kg/l)
VOC	<250 g/l

PACKAGING AND STORAGE

When stored in original, airtight containers at or below 77°F (25°C), MCI-2019 W has a shelf life of 12 months from the date of shipment.

MCI-2019 W is available in 5 gallon (19 liter) pails and 55 gallon (208 liter) drums.

APPLICATION CONSIDERATIONS

MCI-2019 W should not be used on structures under hydrostatic pressure. DO NOT apply when temperature is at or below 0°C (32°F), or expected to fall below this temperature within 8 hours after application. DO NOT thin. It is recommended to keep away from moisture and to avoid rain for 4 hours after application. Stir thoroughly before use. MCI-2019 W performance is closely tied to the preparation of the substrate to be treated. See specification for full application instructions.

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

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.



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>

Distributed by:

printed on recycled paper  100% post consumer
Revised 7/24/12. Cortec Corporation 2004-2012. All rights reserved. Supersedes: 8/3/10
MCI® Migrating Corrosion Inhibitor is a trademark of Cortec Corporation.
© 2012, Cortec Corporation. All Rights Reserved. Copying of these materials in any form without the written authorization of Cortec Corporation is strictly prohibited. ISO accreditation applies to Cortec's processes only.