

MIGRATORY CORROSION INHIBITOR (MCI®) PRODUCTS FOR CONCRETE



MCI®-2019 W

PRODUCT DESCRIPTION

MCI-2019 W is a patented, 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'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.

TYPICAL USES

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

APPLICATION

Application to horizontal surfaces should be done in a flooding action using a low-pressure spray. Normal coverage rates are 125 - 200 ft²/gal (3.07 - 4.91 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 and dry surfaces. Surface, air, and material temperatures should be between 40-120°F (4-49°C) during application.

ADVANTAGES

- MCI-2019 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, chromates
- MCI-2019 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

LIMITATIONS

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. It is recommended to avoid rain for 4 hours after application. MCI-2019 W performance is closely tied to the preparation of the substrate to be treated.



PHYSICAL PROPERTIES

Appearance	Milky white liquid
pH	6.7-7.5 (neat)
Density	7.9-8.1 lb/gal (0.95-0.97 kg/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.

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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