

## MCI®-2019 W

### 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.

### PACKAGING & STORAGE

When stored in original, airtight containers at or below 77 °F (25 °C),

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

Shelf life: 2 years



### HOW IT WORKS

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.

### WHERE TO USE

- 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

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- 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

## PHYSICAL PROPERTIES

Appearance	Milky white liquid
pH	0.3-11.3 (neat)
Density	7.9-8.1 lb/gal (0.95-0.97 kg/l)
VOC	<250 g/l

## APPLICATION

Application to horizontal surfaces should be done in a flooding action using a low-pressure sprayer. Normal coverage rates are 125 - 175 ft<sup>2</sup>/gal (3.0 - 4.3 m<sup>2</sup>/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.

## 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.

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