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**Attention: Editor  
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PRESS RELEASE**



## Another Tool for Your MCI® Concrete Maintenance/Repair Kit!

Water repellents play an important role in concrete maintenance and corrosion protection by blocking out certain corrosives and keeping in Migrating Corrosion Inhibitors. Because water repellents are sometimes applied alone or in conjunction with other concrete surface treatments, Cortec® has recently expanded its MCI® portfolio to include [MCI®-2018 X](#), a 100% silane penetrating water repellent for concrete surfaces.



### **Water Repellent for Concrete**

MCI®-2018 X is [MCI®-2018](#) minus the Migrating Corrosion Inhibitors. Its primary function is to line concrete substrate pores with a hydrophobic layer that reduces the ingress of moisture, chlorides, and carbonation, thus

extending the service life of the structure. If applied after a penetrating SACI (surface applied corrosion inhibitor), MCI<sup>®</sup>-2018 X prolongs the protection period of the corrosion inhibitor. MCI<sup>®</sup>-2018 X allows the surface to stay fully breathable and retain its original appearance.

### **Solving the SACI/Water Repellent Dilemma**

In the past, MCI<sup>®</sup> customers sometimes faced the dilemma of whether to apply [MCI<sup>®</sup>-2020](#) to get the highest concentration of MCI<sup>®</sup> SACIs on the market or whether to take advantage of the benefits of the two-in-one MCI<sup>®</sup>-2018 water repellent with a lower concentration of Migrating Corrosion Inhibitors. While an even better option was to apply MCI<sup>®</sup>-2018 on top of MCI<sup>®</sup>-2020 for maximum protection, this could easily fall outside the project scope and budget. Now, if MCI<sup>®</sup> users want the high concentration of MCI<sup>®</sup>-2020 with only a water repellent on top, they can order MCI<sup>®</sup>-2018 X along with MCI<sup>®</sup>-2020 and be done with their search for a supplementary product.



### **When and Where to Use MCI<sup>®</sup>-2018 X**

MCI<sup>®</sup>-2018 X can be used for routine maintenance every 5-10 years or used as part of the finishing touches to a concrete repair. Because it does not change the substrate's appearance, MCI<sup>®</sup>-2018 X is a great option for historical restorations. As a silane water repellent, MCI<sup>®</sup>-2018 X has smaller molecules and adsorbs better into concrete than siloxane blends that can cause puddling, making MCI<sup>®</sup>-2018 X better for areas where slippage is a concern (e.g., steps, parking garage floors, and bridge decks). Other target applications include commercial buildings, tunnels, jetties/piers, and offshore oil platforms (non-submerged applications). MCI<sup>®</sup>-2018 X is also a good option for contractors who do not want to or need to pay extra for a corrosion inhibitor because their only purpose is to repel water on brick or stone surfaces that do not have underlying metal reinforcement.

### **How to Apply MCI<sup>®</sup>-2018 X**

MCI<sup>®</sup>-2018 X can be applied by spray, roll, or brush to a clean concrete surface with a CSP 1-3 surface profile (per ICRI guidelines). As noted, MCI<sup>®</sup>-2020 may be applied first for additional corrosion protection. After a repair, fresh concrete should be allowed to cure 28 days before application of MCI<sup>®</sup>-2018 X. A dry surface is preferred for maximum penetration, although the second coat of MCI<sup>®</sup>-2018 X should be applied wet-on-wet over the first coat for best results.

## A Customized Approach to Concrete Protection

The addition of MCI®-2018 X to the Cortec® portfolio helps contractors take a more customized approach to their selection of MCI® concrete surface treatments by adding a stand-alone water repellent to their concrete maintenance/repair kit. Used alone or in conjunction with MCI®-2020, MCI®-2018 X may be the logical choice to meet certain project protection and budget parameters.

[Contact Cortec® if you need more help deciding which concrete surface treatment combination is best for your next job.](#)

**Keywords:** concrete maintenance, concrete repair, Migrating Corrosion Inhibitors, From Grey to Green, concrete water repellent, surface applied corrosion inhibitors, Cortec MCI, historical restoration, concrete protection, concrete breathability



03 03 20	Maintenance of Concrete Reinforcing
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### MCI®-2018 X

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**DESCRIPTION**

MCI®-2018 X is a 100% silane penetrating water repellent. It provides great protection for concrete against water ingress and chlorides contamination. MCI®-2018 X lines the pores of the concrete matrix with a hydrophobic layer and boosts the durability and service life of concrete structures. MCI®-2018 X can be conveniently applied on top of a penetrating surface applied corrosion inhibitor (SACI) for a full system of protection against moisture and corrosion.

**PACKAGING & STORAGE**

MCI®-2018 X is available in 5 gallon (19 L) pails and 55 gallon (208 L) drums.

To ensure best product performance, store in original packaging, indoors, and out of direct sunlight at 40-100 °F (-4-38 °C).

Shelf life: 2 years



**HOW IT WORKS**

MCI®-2018 X provides water repellency by chemically reacting with the cementitious substrate under proper application, decreasing the ingress of aggressive materials. If applied after a penetrating SACI, MCI®-2018 X prolongs the protection period of the corrosion inhibitor.

**WHERE TO USE**

- Commercial buildings
- Parking garages
- Bridge decks or bridge structures
- Tunnels
- Jetties/piers and other marine structures
- Offshore oil platforms (non-submerged applications)
- Any other reinforced concrete structure

**ADVANTAGES**

- Lines the substrate pores with a hydrophobic layer while maintaining the original appearance
- Allows surfaces to remain fully breathable and maintain their natural moisture-vapor transmission
- Blocks carbonation and chloride ion intrusion
- Extends the service life of structures
- Easy application by spray, roller, or squeegee
- Contains no nitrites, phosphates, or chlorides
- No flushing, peeling, or yellowing

**PHYSICAL PROPERTIES**

Appearance	Clear, colorless liquid
Density	2.3-7.7 lb/gal (0.97-0.92 kg/l)
Wt.	<1.1 lb/gal (350 g/l)

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