

## Cortec® Presents New MCI® Admixtures Brochure: Simple, Sure, Safe Technology For Extending Concrete Service Life!

Cortec's updated MCI® Admixtures brochure presents a revolutionary way to extend the service life of reinforced concrete structures. Among the more than 50 patents that Cortec® has earned in corrosion inhibiting technology, MCI® Technology offers innovative protection for metal reinforcement in concrete.

Corroded rebar is often the cause of concrete deterioration, which can in turn lead to costly repairs, financial losses, injury, or even death. Cortec's MCI® products have the unique ability to migrate through concrete to protect embedded ferrous metals and extend the lifespan of new or existing concrete structures.

As the brochure explains, three major causes of corrosion in concrete are chlorides, carbonation, and industrial pollutants. Though the high pH of new concrete initially offers a safe environment for steel rebar, the previously mentioned environmental factors can lower pH or compromise the protective passive oxide layer that naturally forms on embedded reinforcement. This allows an electrochemical reaction to take place between anodic and cathodic points on the metal, resulting in corrosion. As rust builds up and expands in volume, concrete cracking and spalling occur.

While other corrosion treatments are costly or impossible to apply once a concrete structure has been built, MCI® can be easily admixed into new concrete or applied to existing structures at minimal cost. MCI's ability to migrate through concrete means it can protect reinforcing metal without being applied directly to rebar, providing corrosion protection that is superior to standard inorganic inhibitors.

MCIs are mixed inhibitors that offer corrosion protection at both the anode and cathode. As shown in brochure images, MCI® in the vapor phase migrates through the concrete pore structure until it comes into contact with embedded metal, forming a protective molecular layer on its surface. This ionic attraction allows MCI® to penetrate into the surface of the metal deeper than water, chlorides or other aggressive contaminants.



Past tests have determined that MCI® admixtures are effective for periods in excess of 30 years. Additional tests have shown that MCI® admixtures do not compromise the physical properties of concrete. In fact, MCI® products have repeatedly exceeded ASTM test requirements for compressive and flexural strengths.

A helpful guide at the end of the brochure describes MCI® product characteristics, dosage, and application. Where appropriate, these products can be applied with Cortec's portable and direct feed dispensing systems for dosing admixtures into concrete.

The MCI® Admixtures brochure is a great resource for understanding the causes of corrosion and implementing effective steps of protection. With MCI® Technology, you have a simple, sure, and safe solution to ensure the longest possible life span of your concrete structure.

# „Peel“ Off Your Corrosion Problems with MCI® Peel-Off Coating!

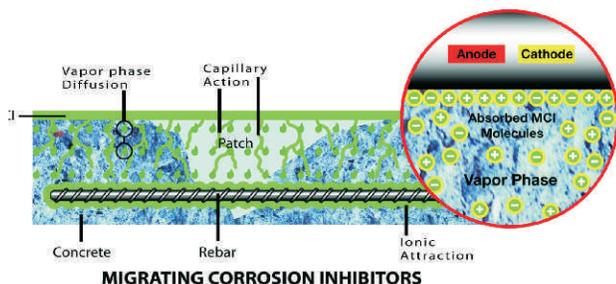
## Powerful Multipurpose Solution for Construction Industry



MCI® Peel-off Coating is a corrosion inhibiting, modified water-based acrylic peelable coating powered by Migrating Corrosion Inhibitors (MCI®) technology. This product provides mechanical protection against nicks, abrasion, scratches and over-spray to the surface that it covers. MCI® Peel-off Coating can be used to protect non-porous walls, ceilings, floors, windows, and light fixtures: one coating can do it all!

In addition it enables cost savings and corrosion protection to the metals against atmospheric, salt and chemical induced corrosion. This formulation represents the ultimate in non-solvent peelable coatings. It is well stabilized against brittleness and will not be softened or penetrated by solvent-based paints. MCI® Peel-off coating has extremely low VOC and meets the most strict VOC requirements.

Migrating Corrosion Inhibitors (MCI®) are the best solution on the market for restoration challenges. MCI®'s extend useful service life and can cut corrosion rates to one-fifth of previous corrosion. They are compatible with other materials for flexible and complete restoration and are certified for use in structures containing potable water. MCI® technology successfully passed various evaluations



for concrete repair under severe conditions.

### MCI® PEEL-OFF COATING FEATURES

- Water-based, VOC compliant
- Environmentally safe, non-flammable
- Can be disposed as a solid waste
- Reduces labor cost by reducing the application time
- Easily removed - peels off in sheets
- Does not leave any residue after removal
- Easy application - excellent sag resistance
- Contains corrosion inhibitors to prevent corrosion on unpainted metal surfaces

During construction or restoration projects, it is necessary to mask off all glass surfaces to protect them from debris and chemical etching. Using a masking tape and plastic film is a labor-intensive process that is not always effective since the plastic is susceptible to tearing. Recently an alternative method was desired by Cortec®'s customer for protecting glass surfaces during large construction project. MCI® Peel-off Coating was chosen for coating of window frames as an alternative to using plastic film as the product does not etch glass. At the end of the project the coating was easily removed by simply peeling it from the surface. It was then discarded as non-hazardous, solid waste. MCI® Peel-off Coating worked extremely well as a masking product for glass surfaces. It protected the covered surfaces from debris and chemical etching and provided cost savings by reducing labor and providing a more effective method of protection.

MCI® Peel-off Coating conforms to NACE Standard RP 0487-2000 and ASTM-2196 and is VOC and RoHS compliant.

