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PRESS RELEASE



Cortec® Launches New Improved MCI®-2039 Horizontal Concrete Repair Mortar!

In a world where concrete is the most widely used construction material, the need for concrete repairs is inevitable. This is especially true in corrosive environments where concrete deterioration accelerates due to seawater or heavy use of deicing salts. Since concrete repairs are time and labor intensive, it is important to do them in a way that will extend structural service life as much as possible. Cortec's new,



improved line of MCI® repair mortars is designed to help contractors reach that goal, starting with the release of MCI®-2039 High Performance Horizontal Repair Mortar.

Enhance Repairs with Migrating Corrosion Inhibitors

[MCI®-2039](#) is a single-component, fast-setting, high-strength, cement-based repair mortar enhanced with Migrating Corrosion Inhibitors (MCI®). These inhibitors form a molecular protective layer on the surfaces of rebar, increasing the quality and extending the service life of the repair and surrounding structure. Once applied and hardened, MCI®-2039 provides a high level of adhesion and durability, as well as resistance to

water and carbonation attack. High early strength allows for fast repairs and quick return of traffic. MCI®-2039 can be applied indoors or outdoors in a wide temperature range, from 20 to 100 °F (-6 to 38 °C). The mortar can be extended up to 60% by weight for repairs greater than 2” (51 mm) deep.

Minimize the Ring-Anode/Halo Effect

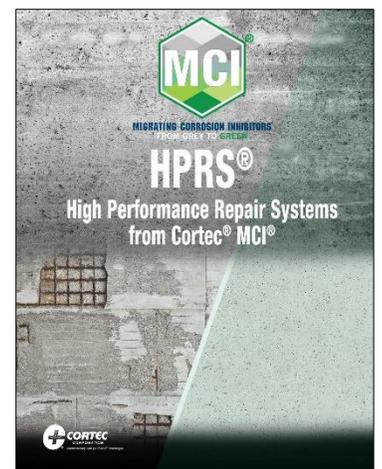


One major problem with concrete repairs is the insidious ring-anode/halo effect. This occurs when the higher pH and resistivity of the patch material creates a difference in corrosion potential between new and old concrete. As a result, corrosion activity may accelerate in the concrete surrounding the patch. What was intended to fix the problem inadvertently shifts the corrosion process to another area. MCI®-2039 can minimize this counterproductive effect as

Migrating Corrosion Inhibitors in the repair mortar travel to adjacent concrete to even out the corrosion potential and help the repair last longer.

Implement a High Performance Repair System (HPRS®)

MCI®-2039 is part of Cortec’s MCI® High Performance Repair System ([HPRS®](#)), which outlines five steps to achieve long-lasting concrete repairs. The first step is to prepare the substrate following ICRI Guideline No. 310.2R-2013 (or a similar engineering guide). Secondly, rusty rebar should either be blasted to bright metal or coated with [CorrVerter® MCI® Rust Primer](#) to passivate the rust. MCI®-2039 is applied next (for horizontal repairs). After the repair mortar has cured, a surface applied corrosion inhibitor (SACI) such as MCI®-2020 (or a water-repellent MCI® SACI) should be used on the entire concrete surface. An optional final coat of [MCI® EcoRainbow® Architectural Coating](#) protects against water intrusion and carbonation and provides a finished look.



By following these MCI® HPRS® guidelines, concrete contractors can maximize the durability of the patch and thus delay time to the next repair, substituting MCI®-2039 for standard repair mortar to enhance protection wherever a horizontal concrete repair is needed:

- Bridge decks, parking decks, and ramps
- Highway repairs and overlays
- Slabs below grade, on grade, or above grade
- Loading docks
- Airport runways
- Industrial and commercial structures



Make Repairs Last Longer with MCI®-2039

For anyone looking to enhance the longevity of a concrete repair, MCI®-2039 is a convenient way to add corrosion protection directly into the repair process. Combined with the entire MCI® HPRS®, it is an even more powerful antidote to corrosion decay in reinforced concrete. Contact Cortec® MCI® today to learn about MCI®-2039 and other MCI® enhanced repair products: <https://www.cortecmci.com/contact-us/>

To learn more about MCI®-2039, please visit: <https://www.cortecmci.com/product/mci-2039/>

Keywords: concrete repair, concrete contractors, corrosion inhibitors, repair mortars, ring anode effect, Cortec MCI, From Grey to Green, make repairs last longer, SACI, surface applied corrosion inhibitors

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