



MIGRATING CORROSION INHIBITORS
FROM GREY TO GREEN



New MCI® DOT Approval!

We are excited to announce that the Idaho Transportation Department (ITD) has added another MCI® admixture to its Qualified Products List (QPL)! MCI®-2005 NS was approved for the ITD QPL on July 13th. It falls under category “709 Concrete Curing Materials and Admixtures,” subcategory “Type S – Corrosion Inhibitor for Concrete.”

While DOT approvals are not absolutely necessary for a product to be used in a certain state, they make the specifying process easier on DOT projects and lend confidence to engineers using them in non-DOT projects. See the chart below for a list of all currently active MCI® DOT approvals.

State/Province DOT	Approved Products
California	MCI®-2005 NS
Idaho	MCI®-2000, MCI®-2005, MCI®-2005 NS (New Approval!) MCI®-2020
Iowa	MCI®-2005 NS

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MCI® News

State/Province DOT	Approved Products
Kentucky	MCI®-2000, MCI®-2005, MCI®-2005 NS
Maine	MCI®-2005 NS
Massachusetts	MCI®-2005 NS
Minnesota	MCI®-2005 AL, MCI®-2005 NS
Ohio	MCI®-2005, MCI®-2005 NS
Pennsylvania	MCI®-2005 NS
South Carolina	MCI®-2000, MCI®-2005, MCI®-2005 NS, MCI®-2006 NS
Oklahoma	MCI®-2005 NS
Montana	MCI®-2005 NS
Louisiana	MCI®-2005 NS
Mississippi	MCI®-2005 NS
Tennessee	MCI®-2005 NS
Kansas	MCI®-2005 NS
British Columbia	MCI®-2005, MCI®-2006
Ontario	MCI®-2000, MCI®-2005 AL, MCI®-2005 NS
Quebec	MCI®-2000, MCI®-2005 NS, MCI®-2018

Pelješac Bridge Wins Prestigious Engineering Award

It is a pleasure to see projects where MCI® has been used recognized for success in the engineering world! One such project was the Pelješac Bridge, which recently won the prestigious [Gustav Lindenthal Medal](#) at the 2023 [International Bridge Conference](#). The award recognizes outstanding bridge engineering achievements that demonstrate qualities such as “aesthetic merit” and “harmony with the environment.” Cortec® congratulates Pelješac Bridge engineers for this achievement and is proud to be among the structure’s suppliers of corrosion protection materials!



Click here to see a stunning view of the bridge and rappelling workers applying MCI®-2018 to the piers: https://www.youtube.com/watch?v=uF_SdLBnzRY



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MCI® News

New MCI® Detection Methods Coming Soon!

MCI® R&D is one of those persistent activities almost always going on behind the scenes at Cortec® Laboratories. An exciting recent development is the discovery of new MCI® detection methods by our Product Development Chemist, Colin Gardner. Colin has found an ion selective electrode that can easily detect a key component of MCI® chemistry in wet concrete. He's working to develop a field-portable method of this so contractors can verify that the ready-mix truck has the right product inside ready to be poured on the jobsite. Colin has also used the electrode to develop a method that allows him to look at MCI®-2020 penetration into dry concrete over the course of several weeks. These detection methods offer great improvements on past methods and will be a boon to distributors and contractors who want extra reassurance that MCI® is present and at work in their structure. Stay in touch with your MCI® representative for further developments as these methods get closer to being released for customer use!



This ion selective electrode can detect a key component of our MCI® chemistry in wet concrete. A method for using this electrode to detect MCI® in hardened concrete is also in development.

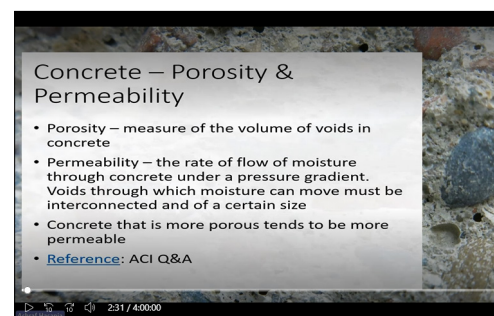
MCI® Education

Most Recent MCI® Webinar Dives into Water Repellents

Ash Hasania (MCI® Technical Sales & Market Manager) continues to give periodic webinars that provide an in-depth view on different MCI®-related topics. The last webinar took place in June on the topic of MCI® Water Repellents and had good attendance with more than a dozen participants. Ash went far beyond the basics of MCI® water repellent mechanisms to talk about molecular differences between various water repellents, why silanes are great to use on areas where slippage is a concern, evaporation speeds of silanes vs. siloxanes, and much more.



If you are an MCI® distributor who would like to be included in these webinars, contact Ash and request to be added to the list: ahasania@cortecvci.com.



A Closer Look at RILEM Tube Testing

For any of you who regularly apply sealers or water repellents as part of your concrete jobs, these RILEM test tubes are probably a familiar sight. The tubes are sealed onto the concrete and filled with about 5 inches (12.7 cm) of water to simulate the water pressure of wind-driven rain. Over the course of about a week, the water gradually seeps into the concrete pores. However, if a sealer or water repellent has been applied to the concrete, the water ingress is much slower, confirming to workers that a water repellent is present and active.

In addition to being a helpful field test, RILEM Tube Testing also comes in handy at Cortec® Laboratories. Product Development Chemist Colin Gardner often uses it when running tests on MCI® water repellents such as MCI®-2018, MCI®-2019, MCI®-2021, etc. Testing looks slightly different on the lab bench since Colin does the testing on small concrete discs instead of a parking deck or other real-life concrete structure. He also makes sure to run a control test on untreated concrete alongside the treated samples to compare the relative difference in permeation rate.

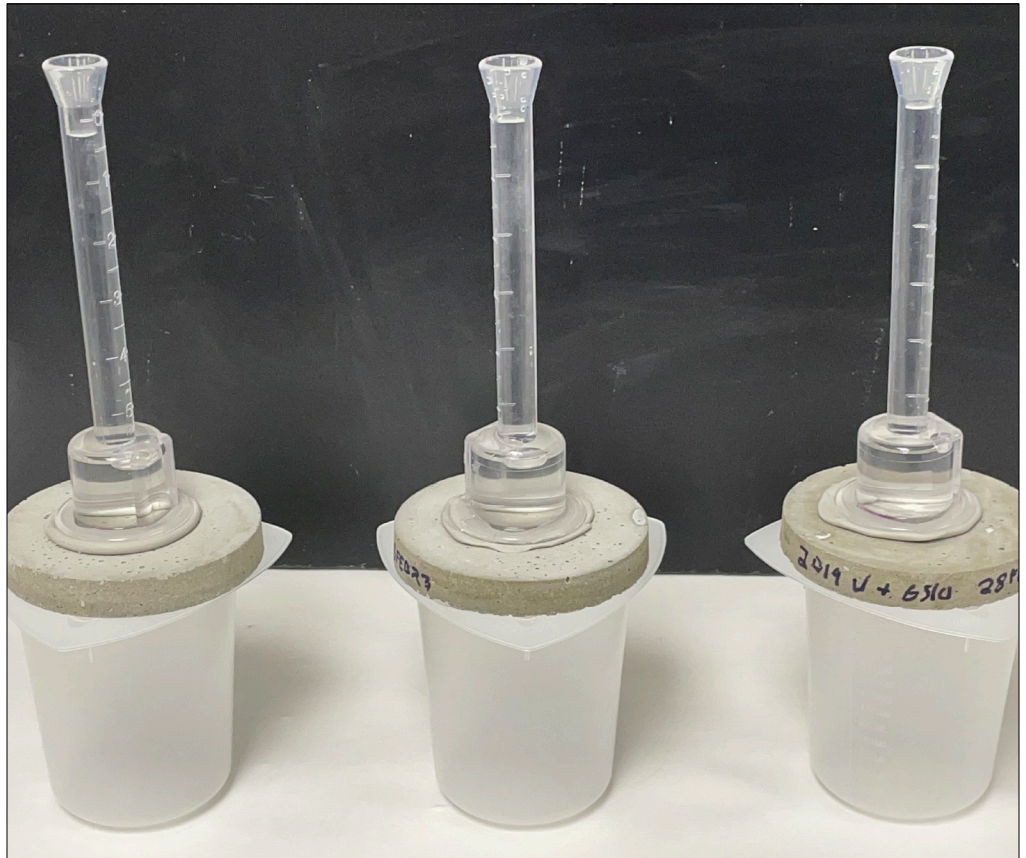
To learn more about the benefits of and guidelines for using RILEM Tube Testing on the job, contact your MCI® rep!



A special waterproof putty is placed on the bottom of a RILEM test tube to seal it to the concrete prior to testing.



The tubes are filled with 5 inches of water, with care taken to avoid air bubbles that would interfere with water pressure in the column of water.



RILEM Tube Testing. Control sample at left. The right two test tubes are placed on MCI®-treated concrete samples.



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Out and About

MCI® Royals for a Day!

The visit of Jessi Meyer (VP Product & Technical Sales) and Ivana Liposcak (MCI® Technical Sales Manager Europe) to UK Construction Week, May 7th-9th in London, happened to fall just one day after the coronation of Charles III. In addition to interacting with reps from a variety of different construction material companies at the show, they also planned a meeting to catch up with Dean Kenny of Lake Engineering. Besides touching base on corrosion control topics, he also had the chance to snap a photo of Jessi and Ivana enjoying a brief moment of "royalty."



Jessi Meyer (left) and Ivana Liposcak (right) try out flower-encircled thrones during their business trip to London around the time of the coronation. Image credit: Dean Kenny (Lake Engineering).

Contributing to ICRI Chapters

Being part of local ICRI (International Concrete Repair Institute) chapters is a great way to make new industry connections and raise awareness of important industry topics. Kevin Quan, our East Coast MCI® Regional Sales Manager, continues to do that in the two chapters where he is a board member. One

noteworthy contribution Kevin recently made at the ICRI Baltimore/Washington DC Chapter was to write an article for the chapter's quarterly newsletter about the organization's first quarter joint dinner meeting with the ACI capital chapter on the topic of carbon neutrality. We encourage you to follow in the footsteps of Kevin and consider making similar contributions to your local chapter!

1ST QUARTER JOINT DINNER MEETING WITH ACI CAPITAL CHAPTER

BY KEVIN QUAN, CORTEC CORPORATION



On February 9th, 2023, our chapter held a joint dinner meeting with ACI at Maggiano's Little Italy. We were treated to a special presentation by Dr. Charles K. Nmai, Head of Engineering at Master Builders Solutions, on the topic of achieving carbon neutrality in the concrete industry. Dr. Nmai provided an overview on the roadmap to decarbonizing by the year 2050. He shared with us the different strategies in how this goal can be achieved in efficiency in design and construction to alternative materials that can be used in production. It was especially interesting to hear about the availability of new low-carbon materials that have been used in some projects across the country.

One message that was clear was that we all can contribute to this quest for sustainable concrete construction and carbon neutrality as designers, manufacturers and repair professionals. Besides the excellent presentation, everyone had a good time networking before and during dinner while listening to Dr. Nmai present. Thank you Dr. Nmai. It was overall a very well attended event with 115 members in attendance. We look forward to seeing everyone at our next dinner meeting on May 10th at Martin's West.



Dr. Charles K. Nmai





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Out and About

Reflecting on Spring ICRI and Looking Ahead to Fall!

The approach of the Fall ICRI Convention reminds us of our profitable time at the 2023 ICRI Spring Convention last April in Vancouver, B.C. Ash Hasania and Jessi Meyer found the conference well attended by all players in concrete repair—from engineers to contractors and manufacturers. It was a special pleasure to connect with Canadian professionals from B.C. and greater Canada whom we do not often get the chance to see at ICRI events in the U.S.!

In addition to attending technical sessions, our team also made its share of contributions to ICRI committees, including ICRI Committee 510 (Corrosion), ICRI Committee 310 (Surface Preparation), and ICRI Committee 160 (Life Cycle and Sustainability). There was also time to relax and enjoy

the culture and natural beauty of Vancouver at the Vancouver Art Gallery and Capilano Suspension Bridge Park.

The ICRI Fall Convention is just around the corner, so we invite you to register now and join us in St. Pete Beach, Florida! <https://www.icri.org/page/2023-fall-conv-home>



Above: Jessi and fellow marketing committee members were recognized for their efforts during the ICRI awards lunch.





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Case Histories

Case History #807: Rehabilitation of Bilbao Fine Arts Museum

The Bilbao Fine Arts Museum needed 2,000 m² (21,528 ft²) of repairs. Deteriorated concrete was removed, reinforcement was cleaned and passivated, and a single-component repair mortar was applied where needed. MCI®-2020 was applied over the repair and the precipitates washed away before final coating application. Rehabilitation was an important part of structural maintenance and service life extension, and MCI®-2020 served as a convenient way to enhance the repair. Read more by logging in: https://www.corteccasehistories.com/?s2member_file_download=access-s2member-level1/ch807.pdf



Case History #810: Train Underpass Repair



A reinforced concrete tunnel passing under a high-speed train line in Spain was suffering from carbonation which led to corrosion inside precast segments. The customer decided to include Migrating Corrosion Inhibitors in maintenance and repair work and therefore applied MCI®-2020 onto the walls and arch pieces inside the tunnel. This added a simple, yet powerful boost of corrosion protection to concrete that no longer had a naturally passive environment. Read more by logging in: https://www.corteccasehistories.com/?s2member_file_download=access-s2member-level1/ch810.pdf

Case History #811: Puente del Centenario Repair and Protection



The Puente del Centenario de Sevilla (Centennial Bridge of Seville), was built for the 1992 World Expo. It consists of 88 stay cables that suspend five spans from two large supports. The bridge carries an average of 100,000+ vehicles/day and is high enough to allow ship passage. A major overhaul and expansion of the bridge to six lanes instead of five included concrete repairs and MCI®-2020 application to pillars to enhance longevity of this important cultural landmark. Read more: https://www.corteccasehistories.com/?s2member_file_download=access-s2member-level1/ch811.pdf





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Upcoming Events

Connect with us at these upcoming events!

EUROCORR

August 27th–31st, 2023

Brussels, Belgium

Booth #22

www.eurocorr.org

Latin America Sales & Marketing Meeting

October 4th–6th, 2023

[Jurerê Beach Village](#)

Florianopolis, Brazil

Contact [Dario Dell'Orto](#) for more details!

European Sales & Strategy Meeting

October 11th–13th

Radisson Blu Resort & Spa

Split, Croatia

https://www.cortecvci.com/whats_new/announcements/Save-the-Date-2023-Cortec-European-Sales-and-Strategy-Meeting-3.pdf

2023 ICRI Fall Convention

October 16th–18th, 2023

TradeWinds Island Resorts

St. Pete Beach, Florida

<https://www.icri.org/page/2023-fall-conv-home>



2023 ICRI Fall Convention

TradeWinds Island Resorts
St. Pete Beach, Florida

October 16-18, 2023

ACI Concrete Convention

October 29th–November 2nd, 2023

Boston Convention Center & Westin Boston Waterfront

Boston, MA

www.concrete.org

Cortec® Asia-Pacific Sales & Strategy Meeting

November 8th–10th

Grand Copthorne Hotel, Singapore

Contact [Cliff Cracauer](#) and/or [Vincent Ong](#) for more details!

World of Concrete 2024

January 23rd–25th, 2024

Las Vegas Convention Center

Las Vegas, NV

Booth #S12157

www.worldofconcrete.com

AMPP Annual Conference 2024

March 3rd–7th, 2024

Ernest N. Morial Convention Center

New Orleans, LA

Booth #1311

www.ampp.org



STAY CONNECTED



SUBSCRIBE



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