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**PRESS RELEASE**



## MCI® Post-Tension Solutions Take the Stress Out of Corrosion Protection for Bridge Contractors

It often takes several years to build a prestressed concrete bridge. During that time, construction materials such as rebar and post-tensioning (PT) cables may be exposed to corrosive environments. Thanks to Cortec's specialty line of MCI® PT products, contractors can take several easy steps to mitigate corrosion on these important metal components.



The best time to apply corrosion protection is from the start. Rather than leave piles of rebar to rust unprotected outdoors on the construction site, workers can coat them with MCI® CorShield®. This water-based clear coating forms a soft, non-tacky film that eventually hardens and does not have to be removed before embedding rebar in concrete. Depending on specific conditions, MCI® CorShield® provides an estimated six months to two years of corrosion protection in unsheltered outdoor environments (five years indoors).



Another sensitive construction period is when PT tendons have been placed inside precast bridge segments but have not yet been grouted due to cold weather or other construction delays. If the wait is two weeks or more, federal or state requirements often call for corrosion inhibitor use. Cortec's MCI<sup>®</sup>-309 is an excellent option that can be easily fogged through PT ducts using a low-pressure air hose. As long as the ducts remain closed, MCI<sup>®</sup>-309 releases

corrosion inhibiting vapors that form a self-replenishing protective molecular layer on all exposed metal surfaces within the PT duct. MCI<sup>®</sup>-309 provides as much as two years of protection and does not need to be flushed out before grouting. If desired, contractors can easily mix water-soluble MCI<sup>®</sup> Grenade<sup>®</sup> pouches into the grout as an additional source of Migrating Corrosion Inhibitors for ongoing protection of PT tendons after grouting.

PTC Emitters provide another excellent and efficient method of corrosion protection for PT tendons or suspension cables in enclosed void spaces. PTC Emitters are breathable pouches that emit Migrating Corrosion Inhibitors. Similar to the technology of MCI<sup>®</sup>-309, these corrosion inhibiting vapors condense on all accessible metal surfaces within the void. The emitters are extremely easy to apply by choosing the right number of pouches based on space volume and distributing them evenly throughout the enclosure. PTC Emitters do not contain



silicates, phosphates, nitrites, or heavy metals. They were originally designed to supplement and back up a dehumidification system for protecting suspension cables on the Severn Bridge.

Corrosion is an ever-present enemy for metal components in outdoor environments. Thanks to MCI<sup>®</sup> PT products, contractors can add a powerful degree of corrosion protection to PT components and suspension bridges without much extra work.

Contact Cortec® MCI® to discuss the best options for your PT application:

<https://www.cortecmci.com/contact-us/>

To learn more about PTC Emitters, please visit:

<https://www.cortecvci.com/Publications/PDS/PTC%20Emitters.pdf>

To learn more about MCI®-309, please visit:

<https://www.cortecvci.com/Publications/PDS/MCI-309.pdf>

To learn more about MCI® CorShield®, please visit:

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