

CORTEC*Vision*

April 2022

ENDLESS INNOVATION

A Look at Cortec® Product
Releases in the Last
Six Months



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Endless Innovation: A Look at Cortec® Product Releases in the Last Six Months

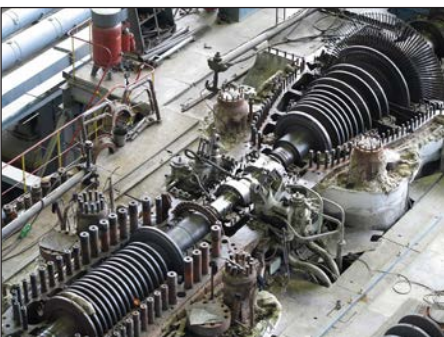


Over the last six months, we have officially released six new products, demonstrating a relentless commitment to innovation and, where possible, sustainability and a lower environmental impact.

In October, [**EcoLine® AL-Corr™**](#) was our poster child for bio-based corrosion solutions with an eye to environmental impact. EcoLine® AL-Corr is designed to protect irrigation pipe internals from corrosion during active and intermittent use. It contains 81% USDA certified biobased content and is formulated with biodegradable materials approved for use in personal care products and food preservation.



In November, we notified customers of a new high-temp anticorrosion slip coating for electrical conduits. [**EcoShield® VpCI®-386 HT Slip Coating**](#) is a unique high-heat-resistant water-based DTM (direct-to-metal) coating that offers improved surface slip, excellent outdoor weathering, and thermal heat protection. The slip coating is designed to reduce the coefficient of friction on the inside of electrical conduits to make it easier to push electrical wiring through the tubes.



Near the middle of January, we introduced our newest lubricant additive—[**M-535**](#)—which offers advanced corrosion protection and compatibility for ashless oil systems. This is extremely valuable for gearboxes, turbines, and other lubricant systems at risk for corrosion from trapped water or moisture condensation. M-535 offers vapor-phase corrosion protection and was designed specifically with the needs of ashless oils in mind and a heightened understanding of ashless performance requirements.*

February saw the release of three products. The first was [**EcoClean® Scale and Rust Remover HP**](#), a great industrial strength product that is much safer than muriatic acid to clear away scale buildup on all water-contacting equipment surfaces in a variety of industrial systems.



[**MCI®-2044 Self-Consolidating Concrete Mix**](#) was close on its tail for greater concrete repair flexibility. Using MCI®-2044 in a concrete repair can delay corrosion and reduce corrosion rates once started, helping the concrete patch last longer. It also protects against the ring anode effect by evening out the corrosion potential between patch materials and old concrete where the pH is different.

Finally, [**EcoAir® Biobased Outdoor Coating powered by Nano VpCI®**](#) was released, complete with a USDA Certified Biobased Product label. EcoAir® Biobased Outdoor Coating powered by Nano VpCI® contains 65% USDA certified biobased content and delivers an oily protective film to metal surfaces by way of a convenient EcoAir® spray can that makes use of compressed air rather than traditional propellants.



Altogether, these products are a great sampling of our diverse options with a smattering of biobased solutions and other features to help minimize environmental impact.

**Compatibility should always be tested before use.*

PRODUCT NEWS

Eco Wrap® Awarded Industrial Compostability Certification by TÜV Austria

On November 24th, we received the “OK compost INDUSTRIAL” certificate from TÜV Austria. This certifies that Eco Wrap® conforms to the criteria for industrial compostability under EN 13432 (European equivalent of ASTM D6400). It is an exciting stamp of approval to help us promote this “greener” packaging alternative as a replacement for traditional non-compostable stretch wrap.**

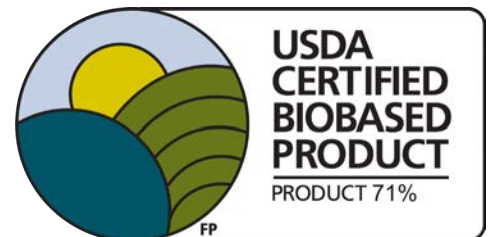


DPS Skis Bids to Cut Plastic Waste with Cortec® Packaging Partnership

Lettuce. Apple cores. The wrapper on your new pair of skis. These are all items that could end up at your local industrial composting site with the launch of a new partnership between U.S.-based DPS Skis and Cortec® Corporation. DPS planned to ship skis to consumers and retailers wrapped in commercially compostable** Cortec® EcoShrink™ Film starting in the fall of 2021. Learn more here: <https://www.cortecvci.com/press-release-dps-skis-bids-to-cut-plastic-waste-with-new-cortec-packaging-partnership/>

S-8 Food Can Corrosion Inhibitor Is Now a USDA Certified Biobased Product

Did you know that S-8 corrosion inhibitor additive for food-can processing has a USDA Certified Biobased Product label? S-8 contains 71% USDA certified biobased content and is a qualified product under the mandatory federal purchasing initiative of the USDA BioPreferred® Program.† S-8 is designed for corrosion protection of sealed food cans during washing and sterilization. Learn more: <https://www.cortecvci.com/press-release-s-8-food-can-corrosion-inhibitor-awarded-usda-certified-biobased-product-label/>



** This product is intended to be composted in a commercial composting facility operated in accordance with best management practices. Check locally to see if such a facility exists in your community and if they will accept this product. Not suitable for backyard composting.

† For more information, go to <https://www.biopreferred.gov>.

PRODUCT NEWS

Concerned about Chloride Carryover? Great Testing News on VpCI®-649 BD

New test data indicates that our popular hydrotesting/preservation product, VpCI®-649 BD, leaves no detectable sodium and chloride residual in equipment after preservation and draining. Water sample analysis from testing showed little difference in sodium and chloride levels before and after VpCI®-649 BD treatment in both cleaned and uncleaned pipes. Test results indicate VpCI®-649 BD will meet sodium and chloride residue restrictions of those with stringent requirements for avoiding chloride and sodium carryover after equipment preservation. More: <https://www.cortecvci.com/news-alert-great-news-for-users-of-vpci-649-bd-with-sodium-and-chloride-restrictions/>



Our Newest Patent for Dry Sprinkler Systems

We are pleased to announce our newest US patent for corrosion mitigation inside dry sprinkler systems! This patent covers a comprehensive system of protection that relies on Vapor phase Corrosion Inhibitors (VpCI® or VCI). The primary benefit is corrosion mitigation inside dry sprinkler pipes to help sprinklers last longer with less likelihood of failure. The system is easy to install with little to no maintenance

required. Learn more: <https://www.cortecvci.com/press-release-cortec-awarded-patent-for-innovative-fire-sprinkler-corrosion-mitigation-technology/>

Competitive New Pricing for MCI® Grenades!

We are excited to announce a new cost reduction for MCI® Grenades thanks to the automation of our MCI® Grenade packaging system. Lower production costs and greater economies of scale translate into cost savings for your next order of MCI® Grenades. Enjoy more savings per unit while also getting MCI® Grenades in larger quantities—40 per drum (32 Metric MCI® Grenades per drum) instead of only 20 MCI® Grenades per carton. This is a great opportunity to stock up for emergencies! Learn more: <https://www.cortecvci.com/news-alert-mci-grenades-now-available-at-lowest-price-ever/>



NEW RESOURCES

Guide to Preservation & Layup of Thermal Gasoil Process Systems

With the volatility of the oil and gas market, you never know how soon refinery operations might fluctuate and require certain process equipment, such as thermal gasoil units, to shut down temporarily until demand and profits increase. Proper preservation is critical. Our layup guide for thermal gasoil units is a great resource to consult for product and preservation recommendations. Find it here: <https://www.cortecvci.com/news-alert-thermal-gasoil-process-system-preservation-layup/>



New Quick Start Guide on DTM Coatings for Construction

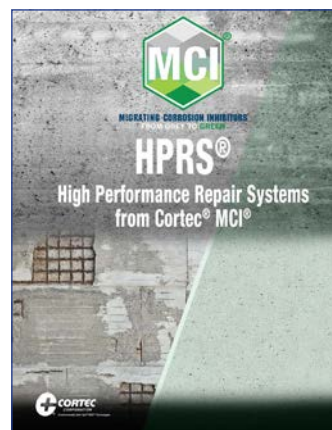
We were pleased to recently release a new coatings guide specifically for the building maintenance and construction industries. The two-page handout gives a quick intro to Cortec® Micro-Corrosion Inhibiting Coatings™ followed by basics on how and where to apply

recommended coating combinations. This is a great resource to share with engineers, contractors, and maintenance crews. Find it here: <https://www.cortecmci.com/mci-coatings-guide-for-construction-applications/>



Take a Fresh Look at Concrete Repairs

We have also recently updated our MCI® HPRS® brochure, which outlines our "High Performance Repair Systems." By following the steps and recommendations of the HPRS® brochure, engineers, contractors, and DOTs can take a path to longer lasting repairs and extended concrete structural service life. The brochure includes an updated listing of recommended MCI® repair products and concludes with a five-step guide to implementing MCI® HPRS®. Browse now: https://www.cortecmci.com/wp-content/uploads/2022/01/HPRS_01-2022_red.pdf



MCI® Brochure Translated into Indonesian

Our MCI® Technology Brochure is now available in Indonesian! This translation will be a great tool for engineers, construction specifiers, and other industry stakeholders in this tropical archipelago nation, where there is steady growth predicted in the construction market and a constant need for concrete corrosion solutions.



Take advantage of the new translation here: https://www.cortecvci.com/wp-content/uploads/MCI_Gen_Brochure_INDONESIA.pdf

NEW RESOURCES

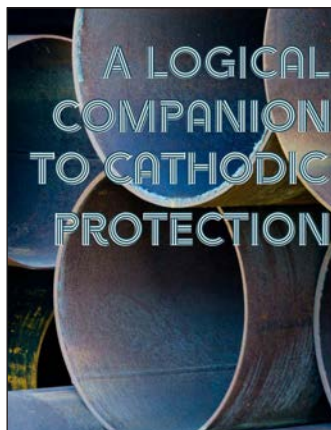
VpCI® Electrical and Electronic Brochure Updated

Looking for corrosion solutions for the electronics industry? Check out our updated “VpCI® Electrical and Electronic Products” brochure to find an orderly list of practical options. Products are sorted according to Emitters, Packaging Films & Bags, Wipes, Sprays, and Absorbents. Each product is listed in the selection guide with one or more recommended applications. Browse now to find great ideas to share: https://www.cortecvci.com/Publications/Brochures/Electric-Electronics-brochure.pdf#new_tab



New CorroLogic® Article in World Pipelines

A brand-new article in the March 2022 issue of *World Pipelines* magazine is a great resource for anyone involved in corrosion protection of above-ground storage tanks (ASTs). The article explains how Cortec's CorroLogic® VpCI® Technology is “A Logical Companion to Cathodic Protection” when it comes to protecting AST bottoms from soil-side corrosion. This is a great reference to share with your colleagues in the oil and gas industry who deal with AST maintenance on a regular basis. Read here: https://www.cortecvci.com/what_new/announcements/Cortec-AST-Article.pdf



VpCI®-337 Fogging Demo Video: Diesel Engine with Turbocharger

For eight months, a manufacturer's team had been working to get an oil-based VCI product applied adequately through the intricate twists and turns inside diesel engines with turbochargers. This led to corrosion inside the turbochargers where the inhibitor could

not reach. Our new demo video shows how in just a matter of seconds, the team was able to successfully fog VpCI®-337 through the entire system: <https://www.youtube.com/watch?v=4LleAAMQ-60&feature=youtu.be>



Construction Specifier Details MCI® in Corrosive Water Environments

Have you ever considered corrosion control in Olympic-sized swimming pools or other corrosive water handling environments? This informative article draws on experiences from Hadar Halperin's (Glimmer – Industry Action) encounters with heightened corrosion risks from seawater and brine wastewater in the construction of desalination plants in Israel. Read the article and see photos here: <https://www.constructionspecifier.com/approaching-concrete-longevity-in-corrosive-water-environments/>



GET TO KNOW OUR TEAM!

Some of our team members may change from time to time, but our underlying values of quality service and environmental responsibility remain. Get to know some of the newer faces that have come onboard since COVID started.

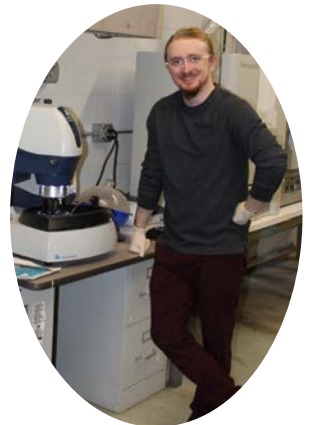


Lisa Ruedy joined our Cortec® Customer Service team just around the time COVID lockdowns hit in March 2020. Fortunately, good skills from more than two decades in customer

service served her well as she found herself flying almost solo to handle customer calls in a new training atmosphere of social distancing. Even with extra customer service challenges, Lisa has kept a passion for helping customers and seeking to make them feel comfortable reaching out to her for any questions.

multiple tasks while fielding communication from multiple stakeholders. Celeste tries to maintain a positive, upbeat attitude. "I think it is not only beneficial for yourself but everyone else around you too because it promotes a positive environment and good relationships," Celeste said.

Luke Stone became a Technical Service Engineer at Cortec® last November. He has a B.Sc. in Science Education from UW Stout with majors in Education and Chemistry and a minor in Environmental Science. Luke is determined to become a strong communication link and use creativity and levelheaded problem-solving to help you arrive at the best solution for your needs. His focus areas are water treatment, coatings, and MCI®.



Samantha Sonnee came on board in May of 2021 as Lead Customer Advocate, bringing with her a broad range of customer service experiences in the retail, construction, and



restaurant industries. "My efforts to bring a joyous approach to a good, new, or difficult situation help me in customer-focused roles," Samantha said. "I work to bridge gaps between groups of people who normally don't interact to gain perspective and improve customer relations."

Derek Jensen joined us in early December to support our efforts to develop sustainable products and reduce our carbon footprint. He said, "... I want to continue the phenomenal reputation that Cortec® has earned as an [e]nvironmentally friendly company by finding more efficient energy resources, minimiz[ing] waste, and focus[ing] on sustainable practices. ... My hope is that companies like Cortec® will be able to influence our customers to think about reducing harmful impacts on the Planet without having to sacrifice the quality of their work." Derek has a B.S. in Environmental Science.



Celeste Spallees is our newest Customer Service Representative. She joined the team in late September and has been adding energy to the department ever since. Celeste brings with her a rich background of skills from a wide variety of career fields that help her stay on top of



OUT AND ABOUT



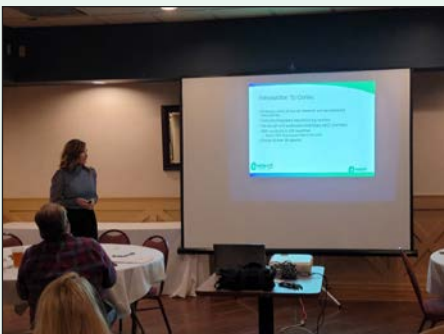
Aiming for the mountaintops at ESM 2021



ESM in session



MTECH International Conference



SEMPPEs Conference

Looking Backward and Forward to Great Times Together!

It was just a little over six months ago that we were able to meet many of you in the heart of Bavaria for our 2021 European Sales and Strategy Meeting, September 29th-October 1st in Munich, Germany. After almost two years of social isolation during the pandemic, it was an extra special pleasure to reunite. We learned from each other's presentations and experiences, recognized outstanding distributors, and enjoyed the sights and authentic German cuisine of Munich along with some regional sightseeing of remarkable Alpine views.

Now, we look ahead to once again reuniting for our first World Sales Meeting since 2019! The special event is set for June 15th-17th near Cortec® headquarters in Saint Paul, Minnesota. As always, this will be a great time to connect with fellow Cortec® representatives, share experiences, build industry knowledge, be inspired, and simply enjoy the privilege of being together. Stay tuned for more details here: <https://www.cortecvci.com/news-alert-save-the-date-cortecs-world-sales-meeting-is-coming-back-this-summer/>

Engaging with Academia and Industry

Shortly after the European Sales Meeting, several members of our team headed to the MTECH International Conference on Materials, held October 6th-9th in Šibenik, Croatia. This international conference brings together members of the scientific, engineering, and industrial community to share knowledge and ideas on corrosion, heat treatment, material testing, and tribology. We were honored to participate in the Technical Committee, present two papers, and receive interesting input from members of academia. Read more about the conference here: <https://www.cortecvci.com/news-alert-cortec-engages-with-academia-and-industry-at-mtech-international-conference/>

Sharing 'One and Done' Corrosion Solutions with Michigan Engineers

We want to give a special thanks to our distributor Unconventional Solutions (USI) for inviting us to speak at the local Detroit Area Chapter of SEMPPES (South East Michigan Power Plant Engineers Society) in October! This was a great opportunity to introduce new corrosion control ideas to engineers and vendors who work with power generation facilities at schools, hospitals, "Big Three" auto plants, utilities, and other industries in the region. The simplicity of our "one and done" technologies shared by Jessica Carpenter (Regional Sales Man-

OUT AND ABOUT

ager – MI, northern IN, northern OH, and Pittsburg) stood out in clear contrast to other options (e.g., nitrogen blanketing) for temporary layup of boilers and critical spares. Learn more here: <https://www.cortecvci.com/news-alert-introducing-the-ease-of-one-and-done-corrosion-solutions-at-sempes/>

CorrBrasil's Third Sales Meeting Reflects Hard Work and Excellence

We were honored to be part of the CorrBrasil Sales Meeting, December 9th-10th in Blumenau, Santa Catarina, Brazil! Thanks to hard and diligent work, timely investments, and tactical market strategies, CorrBrasil has achieved remarkable results since becoming a Cortec® distributor in 2016! In order to give a general update and review current and future business goals, CorrBrasil hosted their third sales meeting for CorrBrasil's board of directors and the company's entire sales and technical support team, inviting Dario Dell'Orto (VP International Sales) and Jessi Meyer (VP Product Management & Technical Sales) to attend, as well. We were grateful for the opportunity to participate, and we congratulate CorrBrasil for their excellent business partnership and real and valuable commitment, which are key contributors to current achievements and a solid foundation for future success! Read more here: <https://www.cortecvci.com/news-alert-corrbrasils-third-sales-meeting-reflects-hard-work-and-excellence/>

Face to Face at World of Concrete

It was great to see those of you who were able to attend World of Concrete (WOC) 2022 with us January 19th-21st in Las Vegas! The excitement of being back in person was visible among attendees, who, though fewer than pre-COVID shows, showed a noticeably larger turnout than the June 2021 WOC. As usual, the MCI® Lunch & Learn was packed with discussion about MCI® business strategies, challenges, market changes, and industry reception, as well as product updates and relevant case histories. We also had some time during the week to relax and attend "WOW – The Vegas Spectacular." We hope to see even more of you next year at WOC 2023!

Cortec® Visits Dubai World Expo!

The first week of February found Cliff Cracauer (EVP – Sales & Marketing) in Dubai catching up on business meetings with Cortec® Middle East (CME) and Cortec® Southeast Asia and also enjoying some moments of constructive free time at the Dubai World Expo!

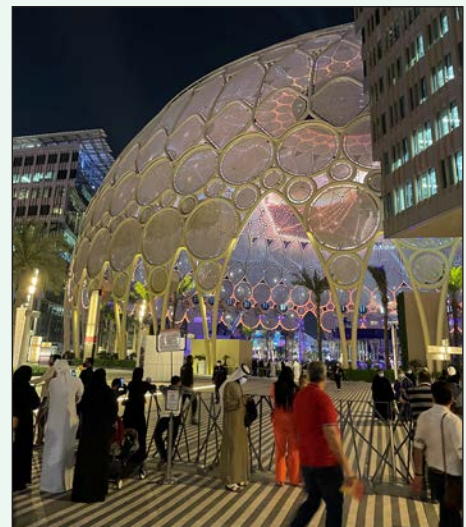
EXPO 2020 Dubai, with the theme of "Connecting Minds, Creating the Future," was originally set to open in October 2020 until the pan-



CorrBrasil team



Luke Stone and Lisa Marston at WOC



EXPO 2020 Dubai



Dubai Expo: USA pavilion

OUT AND ABOUT



Catching up at the Croatia pavilion



Old friends together again at AMPP



An enjoyable evening at St. Anthony Hotel



Underground Corrosion Short Course

demic delayed it one year like so many other aspects of life. That didn't stop the expo from being a massive production featuring exhibits for 192 individual countries as well as many specialty pavilions built on 4.38 km² (1.69 m²) of previously barren land.

Usama Jacir and Iyad Alami accompanied Cliff to visit a number of exhibits including the Croatia, USA, Egypt, and Sustainability pavilions. Of special note was the fact that MCI® had been used as a corrosion inhibitor in the construction of the Sustainability District—a great tribute to MCI® as a sustainable technology that helps transform the concrete industry "From Grey to Green™"!

Cortec® Friends & Family Gather for First In-Person AMPP Conference

It was great to reconnect with many Cortec® Friends and Family at the AMPP Annual Conference + Expo 2022, March 6th-10th in San Antonio, TX. The event marked the first in-person AMPP expo after the merging of NACE and SPCC into one organization. Highlights of the conference included enjoying fabulous food and interesting stories from the past at the historic St. Anthony Hotel with members of Cortec® Global Services, Wiki Valves, MESA, and other Cortec® Friends and Family; participating in technical committees; and attending technical presentations. Overall attendance was good compared to other conventions we've seen since COVID started—so we view this as a hopeful sign that things are starting to bounce back!

Sharing Serious Solutions at the Underground Corrosion Short Course

Day two of the Underground Corrosion Short Course, March 1st-2nd, found Jessica Carpenter in Fort Wayne, IN, thanks to a kind invitation from coatings expert Doug Klingensmith of Unconventional Solutions (USI). Jessica was able to join in a productive time of talking one-on-one with oil company technicians serious about finding corrosion solutions to apply in the field. Doug and Jessica's main Cortec® product recommendations for attendees included

- EcoShield® 386 coating for pipes being stored in the yard
- VpCI®-337 for fogging pipe internals and MilCorr® VpCI® Shrink Film for capping
- M-531 as an oil additive
- VpCI®-649 BD MF for hydrotesting (currently being tested for approval by a pipeline company for use with various water sources)

Doug also attracted attention to the booth with hands-on demos, including one on Cortec® rust removal. The fact that Doug is a NACE Certified Level 3 Coating Inspector who knows the industry was a

OUT AND ABOUT

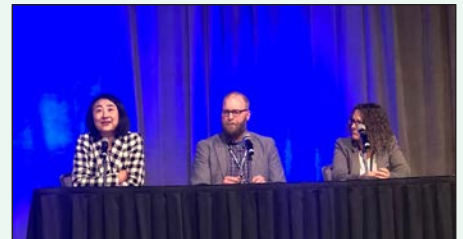
great stamp of approval for Cortec® products, and we appreciate the opportunity to share in the action along with USI!

Ming Shen Joins Expert Renewables Panel at AURI Conference

Ming Shen, Ph.D. (Cortec® Sr. Scientist, Manager, Green Chemistry Initiatives) joined a panel of experts in the biobased/renewables value chain March 23rd at the fourth annual "New Uses Forum 2022." The event hosted by AURI (Agricultural Utilization Research Institute) explores the connection between sustainability, innovation, and agriculture. Ming and her fellow panelists each shared a five-minute presentation followed by an engaging Q&A discussion on the topic of "Bioindustrial Materials, Trends & Opportunities." Learn more about the forum here: <https://auri.swoogo.com/NewUsesForum2022>



AURI renewables panel



Ming shares Cortec® biobased expertise

UPCOMING EVENTS

April CASTEXPO

April 23rd-26th, 2022
Greater Columbus Convention Center
Columbus, OH
Booth #608
www.afsinc.org/tradeshows/castexpo-2022



August EuroCorr 2022

August 28th-September 1st, 2022
Berlin, Germany
www.eurocorr.org



May Offshore Technology Conference

May 2nd-5th, 2022
NRG Park
Houston, TX
Booth #2501
<https://2022.otcnet.org>



September AWT 2022

September 21st-24th, 2022
Vancouver Convention Centre
Vancouver, Canada
<https://www.awt.org/annual-convention-2022/>



FachPack 2022

September 27th-29th, 2022
Nürnberg, Germany
www.fachpack.de



June Cortec® World Sales Meeting

June 15th-17th, 2022
Saint Paul Hotel
Saint Paul, MN
<https://www.cortecvci.com/news-alert-save-the-date-cortecs-world-sales-meeting-is-coming-back-this-summer/>



2023 January World of Concrete 2023

January 17th-19th, 2023
Las Vegas Convention Center
Las Vegas, NV
www.worldofconcrete.com



Cortec® Corporation



Quality Management System (ISO 9001 Certified)

World Class Product Offerings

An innovative producer of leading edge products.

World Class Customer Service

A positive, long-lasting impression through every link of our company.

World Class Environmental Commitment

Cortec® commits to continued development of processes and products that are useful, non-hazardous to the environment, and recyclable whenever possible.

An Ethical and Respectful Company Culture

Respect and treat our colleagues, customers, and vendors as we would our own family members.



Environmental Management System (ISO 14001 Certified)

Cortec's strong environmental concern is demonstrated in the design and manufacturing of products that protect materials of all kinds from environmental degradation. A strong commitment to produce recyclable products made from sustainable resources has been and will be our future policy.



Laboratory Accreditation (ISO/IEC 17025)

Cortec® Laboratories, Inc. is the first lab in our industry that has received ISO/IEC 17025 Certification, which ensures quality in recording and reporting data, as well as calibrating equipment within the laboratory.



Keywords: irrigation pipe corrosion, USDA Certified Biobased Product, compostable film, corrosion inhibiting coatings, concrete repairs, oil and gas industry, MCI, corrosion solutions, Cortec, VCI

LIMITED WARRANTY

All statements, technical information and recommendations contained herein are based on tests Cortec® Corporation believes to be reliable, but the accuracy or completeness thereof is not guaranteed.

Cortec® Corporation warrants Cortec® products will be free from defects when shipped to customer. Cortec® Corporation's obligation under this warranty shall be limited to replacement of product that proves to be defective. To obtain replacement product under this warranty, the customer must notify Cortec® Corporation of the claimed defect within six months after shipment of product to customer. All freight charges for replacement product shall be paid by customer.

Cortec® Corporation shall have no liability for any injury, loss or damage arising out of the use of or the inability to use the products.

BEFORE USING, USER SHALL DETERMINE THE SUITABILITY OF THE PRODUCT FOR ITS INTENDED USE, AND USER ASSUMES ALL RISK AND LIABILITY WHATSOEVER IN CONNECTION THERE WITH.

No representation or recommendation not contained herein shall have any force or effect unless in a written document signed by an officer of Cortec® Corporation.

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