

February 2016

CORTEC*vision*



HOW CORTEC® CONQUERED THE WORLD IN 2015

Cortec's 32nd World Sales Meeting
The Most Successful Yet



CORTEC
CORPORATION

Environmental / Safe VpCI® / MCI® Technologies



Cover Story

Cortec's 32nd World Sales Meeting – The Most Successful Yet

The 2015 Cortec® World Sales Meeting has become the most successful year for its representatives attending from around the world! The kick off started with the general session, which brought together 165 of our partners from 95 countries to share the Cortec® vision and goals for the upcoming years. Cortec® President/CEO, Boris Miksic, FNACE presented his state of the company “Nuts and Bolts of How to Build a World Class Company and Have Fun in Life,” showing how Cortec® has become the global leader in the corrosion prevention industry through hard work and perseverance!

During the general session, Cortec® recognized an elite few for a job well done. The Customer Service Department presented their “Customer Appreciation Awards” to Stanley Kaczorowski from Carolina Green, Rae Jean Nicholl with S.M.A.R.T., and Bodil Meijer Gustafsson from Tribotec. Metal Preservation Group USA was awarded the “Cortec® ‘Rusty’ Top 10 Distributors” by the sales department for the second time in a row.

The general session ended with keynote speaker, John M. Spangler with Caterpillar, Inc. giving his presentation “Advanced Materials Technology Corrosion Engineering Program.”

The remaining days were full of lively sessions, presentations, and social gatherings that gave us the opportunity to get together in person, share strategies and best practices, learn from each other, and have fun! Cortec® wishes to say “Thank You” to the attendees for their participation. We look forward to seeing you again in Minnesota in 2017.

Look for other events in Cortec's future on our website: www.cortecvci.com



Global Focus

Cortec® and Corpac Attend the 2015 Fachpack - Leading the Industry in Corrosion Protection!

Cortec® recently attended the 2015 Fachpack Packaging Show in Nürnberg, Germany. Fachpack is Europe's largest packaging show and this year more than 44,000 visitors attended. Markus Bieber, who is responsible for the German speaking countries, attended the show on behalf of Cortec® to support our partner, Corpac, who made a huge investment in this show. With reps dressed in matching shirts, pants, and shoes, visitors commented on the team approach and presentation, which was well received.

All of Corpac's regional partners visited the booth and there were many existing customers and potential new customers who stopped by to discuss their corrosion needs and challenges.

All major competitors were present, however Corpac/Cortec® remained the clear front-runner with the most diverse product offering available.

To find out other shows Cortec® will be present at, visit: http://www.cortecvci.com/whats_new/tsschedule.php



FachPack 2015

Cortec® Middle East Sponsors Technical Seminar

Cortec® Corporation has a well-established belief in the importance of sharing its latest technical expertise and advancement with local markets. That's why Cortec® Middle East and Abdulla Fouad Impalloy Company recently sponsored a technical meeting for the Ministry of Water & Electricity – General Directorate of Water Eastern Province.

Mr. Maher Barkawai, AFIC GM, opened the October 5th meeting with a welcome address. He was followed by Corrologic® Specialist Abdullatif Balwi, who gave a technical presentation entitled, "Mitigating Soil-Side Corrosion of Aboveground Water Storage Tank Bottoms Using Vapor phase Corrosion Inhibitors (VpCI®) Technology."

The event brought together engineers and specialists from different departments within the ministry province and updated them on the latest advances in Corrologic® AST solutions for this problem. At the end of the meeting, guests reported a high level of interest and excitement about the potential of these innovative solutions to mitigate chronic soil-side corrosion challenges in above ground storage tank bottoms.

CORTEC

MIDDLE EAST

Environmentally Safe VpCI/MCI® Technologies



CORCON-2015 Leads the Way for Corrosion Control Bureau of India!

India is waking up to its multi-billion dollar problem of corrosion, and Cortec® is already taking steps to help. Cortec® recently had the chance to address India's corrosion problems as a Silver Sponsor of CORCON-2015, an international corrosion conference organized by NACE International Gateway India Section. This is the largest corrosion convention outside the US and took place November 19th-21st at the Chennai Convention Centre in India. The event provided a helpful venue for delegates to network and learn more about corrosion issues from a wide variety of experts.

PK Mathew, representing Cortec's India office, played an active role as part of the NACE International India Section organizing committee for CORCON-2015. PK was able to conduct a technical session and contributed a few words at the valedictory function. He later shared that Cortec® had connected with a large number of convention visitors who came by Cortec's tastefully designed booth near the entrance of the expo.

It was announced during CORCON-2015, that the Indian Government would soon set up a Corrosion Control Bureau in line with the existing Standards Bureau of India, after necessary approvals. This bureau would raise awareness of corrosion problems and implement certifications and best practices to prevent corrosion damage and consequent losses. The initiative stems from an earlier agreement between India and the US. This is a significant step in the right direction in the country's fight against corrosion.

As signified by its successful contribution to CORCON-2015, Cortec® as always, stands ready to help with innovative corrosion prevention solutions.



VpCI® Technology Receives Warm Welcome at Marine Maintenance Expo

Innovative Vapor Phase Corrosion Protection of Marine/Naval Equipment was the topic of the day in a presentation at the Marine Maintenance Expo in Antwerp, Belgium (September 29th-October 1st, 2015). Hitek-nology Solutions Ltd operations director Mark Cresswell delivered the presentation, which was one of the best attended during the three-day marine event.

The presentation covered a variety of Cortec® products that can be used during service or layup of marine or naval equipment. These include MilCorr®, emitters, foam, EcoSprays, and additives for water, coolant, fuel, and oil systems. Cresswell explained how Cortec's VpCI® (Vapor phase Corrosion Inhibitor) products work and also presented case histories of vapor phase corrosion protection projects performed by Hitek in marine environments.

About 200 people visited Hitek's booth at the relatively new convention and were free to learn more about Hitek corrosion services or peruse Cortec® brochures. Overall, visitors

responded very positively to the presentation and products, especially to the eco-friendly and biodegradable aspects of Hitek/Cortec® that met their environmental needs.



Highlights from Headquarters

Cortec® Corporation Gathers for an Evening of Employee Appreciation

The Chairman's Employee Appreciation Dinner for Cortec® headquarters and Midwestern plants took place at the end of January 2016. Employees gathered together to celebrate a successful year and hear from Cortec's CEO, Boris Miksic. In a letter to each employee attending the event, Chairman Miksic emphasized his commitment to Cortec's founding principles of good ethics, new products and ideas, positive work environments, and treating customers as part of the family.

He also gave a brief speech pointing out the relevance of Cortec's leading VpCI® and MCI® Technologies in a world where the only sure things are death, taxes, and—yes—corrosion. Rejoicing at the successful growth of Cortec® during the previous year, Chairman Miksic (who has a passion for investing resources back into the company) joked in surprise that he was still wearing an old suit. He exuded high hopes for the future of the company and encouraged employees to greater success by falling back on smarter rather than harder work. Chairman Miksic expressed high regard for the value of Cortec® employees and called them one of the company's greatest resources.

Throughout the evening, employees enjoyed the chance to get to know each other better and build team relationships. Moving on from this point, Cortec® looks forward to another year of even better service to customers through world class corrosion protection.



Lab Finds 20 Year Old Cortec® Emitter Still Provides Excellent Corrosion Protection

The Cortec® Lab proved the durability of its products after a successful test on one of its oldest VpCI® emitters.

When one of Cortec's Brazilian distributors brought an old VCI-111 Emitter to the 2015 World Sales Meeting, Cortec® decided to test the VpCI's continued effectiveness. The VCI-111 Emitter was thought to be at least 20 years old, and was still sealed in its original packaging. Cortec's Lab subjected the emitter to the same Vapor Inhibiting Ability (VIA) testing used to evaluate all VpCI® packaging products. Results found the 20 year old sample to be just as effective as a new Patented VpCI®-111 when tested on both carbon steel and copper—even though the normally loose powder inside the emitter had solidified over the years.

Cortec® products are typically marketed with a 2 year shelf life, but the VCI-111 test suggests that the power of Cortec® vapor phase protection may continue much longer. While Cortec® still recommends replacing emitter products every two years, this test should boost user confidence in the ability of Cortec® products to function effectively even in unusual circumstances.



Cortec® Advanced Films Increases Efficiency on Extrusion Line 21!

The team at Cortec® Advanced Films (CAF) recently broke its record for the quickest setup time on Line 21. This is the most productive line at one of the largest film extrusion plants in the upper Midwest. Setup time has averaged 4½ hours this year. However, early in November, team members were able to get the line 100% ready to run in only 1 hour and 15 minutes. This development signals less setup time, fewer wastes, and greater productivity, which could ultimately lower prices for finished goods on this line.

Line 21 can extrude up to 2500 pounds of film per hour—double the amount of any other line at CAF. This line has been in operation for about 8 years and must be run by the most highly skilled CAF operators using a specialized startup checklist. With this new milestone in place, CAF looks forward to continuing to provide excellent quality VpCI® films with even greater efficiency.



Cortec® Brings High Performance Nano VpCI™ Coating Technology to the 2016 SSPC!

Cortec® Corporation recently participated in the 2016 SSPC show in San Antonio, Texas, as part of its targeted effort to broaden marketplace exposure in the coatings industry. SSPC is one of the largest coatings organizations in the world that focuses on the protection and preservation of steel structures through the use of industrial and marine coatings. It hosts one of the few coatings shows that serve this industry.

Visitors to Cortec's booth included international attendees, OEMs, and contractors looking for better solutions to their corrosion and paint issues. Cortec® coatings specialists were able to converse with these visitors about their needs and the innovative VpCI® Technology that makes Cortec® coatings especially effective against rust and corrosion. Cortec's new Nano VpCI™ coatings video and brochure provided an added dimension to learning about the micro-corrosion inhibiting potential of Cortec's coatings.

In addition to networking with visitors at the booth, Cortec® representatives were able to reach out to other exhibitors who might mutually benefit from a relationship with Cortec® High Performance Coatings. Cortec® hopes to grow positive rela-

tionships with these and many more customers as it expands its service base and potential.



Cortec® Unveils New Website for Micro-Corrosion Inhibiting Coatings™

Cortec's new coatings website offers more direct access to information about Cortec's assortment of patented VpCI® coatings for temporary or permanent application.

To view the new website, please visit:
<http://corteccoatings.com/>.



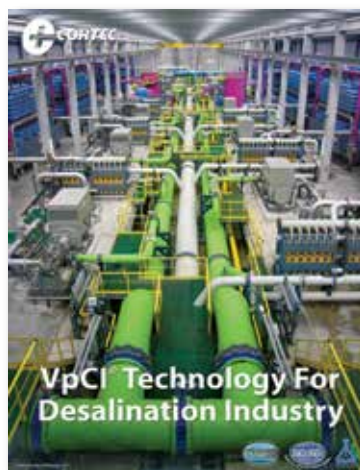
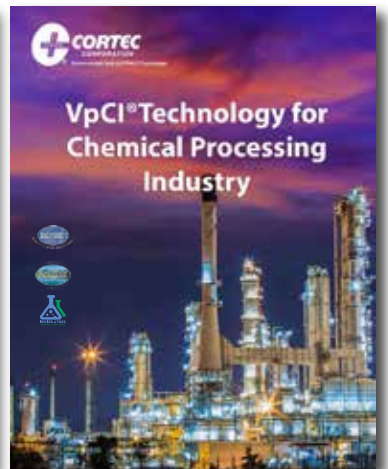
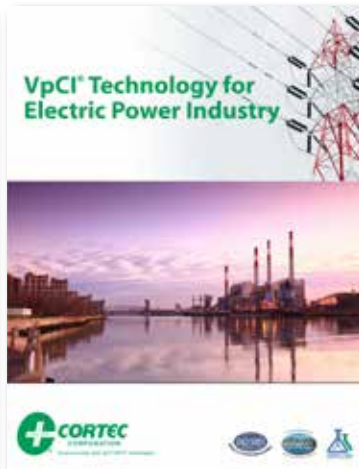
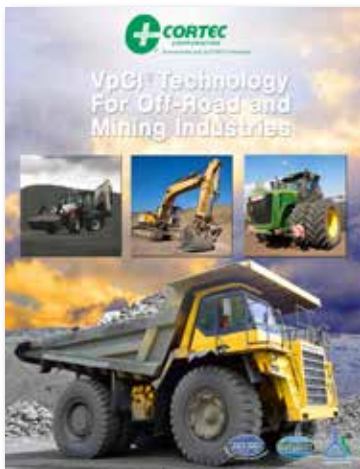
New Available Brochures

New Brochures Present Integrated Solutions for Specific Industries

Cortec® is pleased to announce the release of six brochures and one brochure translation in the past six months!

- VpCI® Technology for Off-Road Equipment and Mining Industries
- Micro-Corrosion Inhibiting Coatings™ Powered by Nano VpCI®
- VpCI® Technology for Electric Power Industry
- VpCI® Technology for Chemical Processing Industry
- MCI® Admixtures (updated)
- VpCI® Technology for Desalination Industry
- VpCI® Technology for Automotive Industry (translated into Portuguese)

Cortec® invites you to peruse these brochures to learn more about how VpCI® solutions can be integrated into specific industries. Stay tuned for more brochures to be released in the coming months!



New Products

VpCI®-280: Fast Drying TopCoat

Cortec® Corporation, the global leader in innovative corrosion protection solutions, is now offering VpCI®-280 - a fast drying, solvent based alkyd topcoat that is sure to put the finishing touch on any product or project. VpCI®-280 has excellent UV resistance, which allows for great color and gloss retention; and can even be matched to most custom colors!

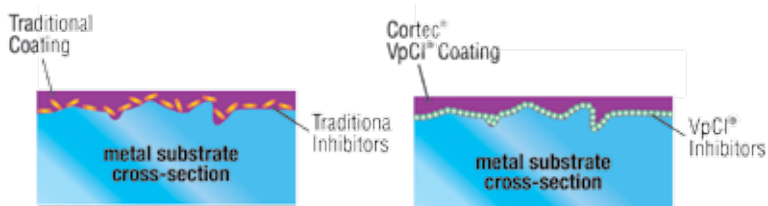
Cortec's VpCI®-280 fast drying topcoat was created to help you quickly protect your assets with an innovative corrosion protection solution where the main focus is time management. When applying coatings in unsheltered areas where wind, weather, and bugs are a concern, the dry time becomes extremely important.

VpCI®-280 was developed as a versatile, industrial finishing enamel for manufacturers of metal products. This enamel offers a quick dry time, high gloss, and good color and gloss retention. It is ideal for industrial OEM uses, including agricultural and construction equipment. Regulatory benefits include very low levels of VOC and Hazardous Air Pollutant Solvents.

This one coat system can be applied DTM (direct to metal) and provides protection in harsh outdoor, unsheltered applications. The complex mixture of non-toxic, organic inhibitors offers protection that competes with most paints and zinc-rich primers.

The surface expectancy of a coating is primarily dependent upon good surface preparation. The surface to be coated should be free of mill scale, rust, oil, and other contaminants including salt deposits. This enamel may be applied over steel and other properly prepared substrates. It may be used for one-coat, direct to metal applications; however, a primer is required for long-term corrosion protection.

VpCI®-280 utilizes Cortec's patented Vapor phase Corrosion Inhibiting (VpCI®) Technology. VpCI® Technology is an innovative, environmentally safe, cost-effective option for corrosion protection. Cortec® products protect with a thin, monomolecular protective barrier. The barrier re-heals and self-replenishes, and can be combined with other functional properties for added protective capabilities. VpCI® forms a physical bond on the metal surface creating a barrier layer against aggressive ions.



New Products

BioEmitter™ Patent Pending Rust Blocker Shield

Cortec's BioEmitter™ offers easy-to-use protection from rust and corrosion on metals stored in enclosed spaces as large as 50 cubic feet (1.4m³). Simply attach the environmentally safe BioEmitter™ onto a clean surface inside an enclosed area, then relax knowing your tools, electric panels, or other metallic valuables are protected!

The BioEmitter™ takes up less than 1 square foot of space and is conveniently packaged in a vented cardboard box; allowing Cortec's innovative Vapor phase Corrosion Inhibitors (VpCIs) to migrate throughout the surrounding space to form an invisible molecular shield on metal surfaces, sealing off air and moisture - even in the hardest to reach areas. The BioEmitter™ provides long-term protection against corrosion even in the presence of adverse conditions including salt, moisture, airborne contaminants, H₂S, SO₂, NH₃, and others.

Cortec's BioEmitter™ is made with bio-based, renewable materials; the VpCIs are non-toxic and do not contain nitrates, silicones, phosphates, or heavy metals. They also have no adverse effects on electrical or chemical properties, and do not harm plastics, elastomers, or painted surfaces.

The BioEmitter™ protects a wide variety of metals from rust and corrosion. These metals include mild steel, galvanized steel, brass, solder, cast iron, silver, aluminum al-

loys, magnesium alloys, copper, and copper-nickel alloys.

BioEmitter™
RUST BLOCKER SHIELD ON BIOBASED PAD



VpCI®-372 Dry Film Temporary Coating - Improved

VpCI®-372 is a dry film temporary coating for parts and equipment. It provides dual protection from atmospheric corrosion and physical nicks, abrasions, and scratches. The water-based milky white liquid can be applied by spray, brush, roll, or dip and produces a clear film for easy equipment inspection. It can also be tinted in a wide variety of colors to identify parts. When it is time to access equipment, the dry temporary coating can be easily peeled away from the surface to uncover a clean, ready-to-use substrate.

Suggested uses for VpCI®-372 include:

- Protection of clean metal surfaces for storage/shipping
- Protection of painted surfaces from physical abuse during storage/shipping
- Protection of clean surfaces during other finishing operations as a masking function
- Paint booths
- Tooling
- Key pads

VpCI®-372 is VOC compliant and can be disposed of as solid waste. It is fast drying, requires no solvents or special equipment to remove, and leaves behind an uncontaminated surface. VpCI®-372 inhibits corrosion on multiple metals, and can be applied to some plastics (removability testing is suggested for each plastic).

Cortec® CorShield® VpCI®-372 conforms to NACE Standard RP 0487-2000 and ASTM-2196.



New Products

Cor-Pak® Dunnage Bags Powered by Nano VpCI™

Cor-Pak® VpCI® Dunnage is a perfect packaging material that combines Cortec's patented Vapor phase Corrosion Inhibiting (VpCI®) Technology with the cushioning function of common dunnage bags. It ensures your valuable shipments arrive at their destinations corrosion-free and nick-free. With active VpCI® content that is more than 95% recycled, Cor-Pak® VpCI® Dunnage Bags also have an excellent environmental footprint.

Cor-Pak® VpCI® Dunnage is a flexible Tyvek®* pouch packed with VpCI®-emitting cushioning materials. Cortec's patented VpCI® Technology releases multi-metal VpCI® protection through the breathable Tyvek® fabric. VpCI® Dunnage Bags are non-toxic and do not contain any nitrites, phosphates, or silicates. One VpCI® Dunnage Bag provides superior multi-metal corrosion protection for both ferrous and non-ferrous metals, simplifying your packaging procedures and reducing your shipping costs.

There are no chemical concentrations to calculate and no chemical tanks or application system to maintain. Simply place VpCI® Dunnage Bags in and around your sensitive assets so they are protected physically and shielded from the corrosion danger common during shipping processes. The corrosion inhibitors inside the Dunnage Bag vaporize, reaching all metal surfaces to provide complete corrosion protection. The unique inhibiting action of Cortec® VpCI® forms a very thin and very effective protective layer that does not alter the appearance of products or require removal before further finishing or use. Parts protected with VpCI® Dunnage Bags can be painted, welded, and soldered. The VpCI® protective layer does not affect physical properties (including conductivity and resistance) of most sensitive electrical components.

*Tyvek® is a registered trademark of E.I. du Pont de Nemours and Company



Products Coming Soon

- **Mold Guard** – Aerosol corrosion inhibitor for plastic injection molds.
- **Biodegradable Scale Remover**
- **New Fogging Offerings:**
 - **VpCI®-307 Powder (Improved)** – Free of secondary amine. A balance of fast acting and long term VpCIs. Easily water removable.
 - **VpCI®-337 NA** – Non aqueous fogging liquid. Freezing point about -45°C. Great VpCI® protection. Treated carbon steel showed no corrosion after more than 1000 hours in humidity chamber.
 - **VpCI®-337 LR** – Low residue aqueous fogging liquid. Great VpCI® and contact inhibitor protection.
- **VpCI®-390** – Water borne alkyd system with improved performance on cast iron.
- **VpCI®-386 HP** (Renovated) – 2 mil (DFT) acrylic coating exceeding 1000 hours in salt spray. Contains Nano VpCI®.

Cortec® Pictures



2016 Cortec Sales Meeting, Sarasota FL



19 year old Corvette treated with Bullfrog Wax. Looks like a brand new car!



Cambridge City 2015



Bionetix at 2016 WWETT, Indianapolis IN



EcoCortec Banner



Great 2015 memories from the Dock's family!

Tradeshows

2016 Trade Show Calendar				Cortec HQ	Bionetix/Cortec	EcoCortec
January	February	March	April	May	June	
SSPC San Antonio, TX www.sspc2016.com Booth #709	WOC Las Vegas, NV www.worldofconcrete.com Booth #S10754	NACE Vancouver, CA www.nace.org Booth # 907	Kormat Zagreb, Croatia www.etcweb.org Booth#	OTC Houston, TX www.otcnet.org Booth # 8621		
	WWett Indianapolis, IN http://www.wetshow.com Booth #2333	ICRI Spring San Juan, Puerto Rico www.icri.org (Jessi Meyer) Booth#	Kyana Louisville, KY www.kyanaind.com (Matt Richey) Booth#	Power Plant Decommissioning Philadelphia, PA (Jim Holden) Booth #		
				ISSA/InterClean Amsterdam, NL www.issa.com Booth # 8645		
				Concrete Service Life Orlando, FL www.concrete.nace.org (Jessi Meyer) Booth # 206		
July	August	September	October	November	December	
		AWT Nashville, TN http://www.awt.org/ (Diana DiMarco) Booth #	LatinCorr WTC - Mexico www.latincorr2016.com Booth#	Pack Expo Chicago, IL www.packexpo.com Booth #N-6331	Power Gen Orlando, FL www.power-gen.com (Cliff Cracauer) Booth # 1513	
		EuroCorr Montpellier, France www.eurocorr.org (Ivana Borsic) Booth # 22	ISSA Chicago, IL www.issa.com (Diana DiMarco) Booth #5114	ICRI Fall Cleveland, OH www.icri.org (Jessi Meyer) Booth#		
			Nace *NAE Conference Tronoto, Ontario, Canada http://nae.nace.org (Shawn Walsh) Booth #110			



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