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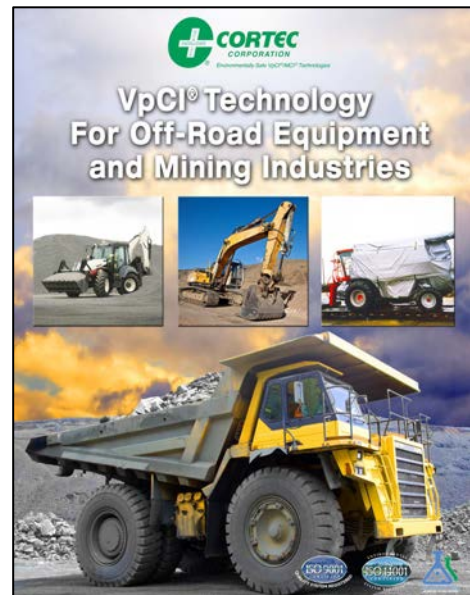
**Attention: Editor**  
September 11, 2015  
**PRESS RELEASE**



## **Cortec's New "VpCI® Technology for Off-Road Equipment and Mining Industries" Brochure Now Available!**

Cortec® has published its NEW "VpCI® Technology for Off-Road Equipment and Mining Industries" Brochure! The brochure provides information on the innovative technology behind Cortec's newest products designed for off-road equipment and mining industries to meet the costly and constant challenges of maintaining and preventing corrosion in machinery that is exposed to highly corrosive environments.

The Off-Road and Mining Industries have presented difficult challenges to researchers in fighting the effects of corrosion—in economic loss and environmental safety. The Cortec® corrosion engineers understand that facilities have different atmospheres that are exposed to very different corrosive



environments. Cortec® is prepared to create a unique plan to fight and prevent corrosion-related problems in the Off-Road and Mining Industries, using industry leading products.



**MACHINERY MAINTENANCE**

The off-road types of Off-Road Equipment and Mining Machinery experience different challenges - everything from impact and abrasion to vibration and exposure to chemicals and weather. Cortec® offers a wide range of products to address more costly and demanding cleaning processes like sandblasting, bead blasting, and acid dipping by incorporating VpCI® products you can integrate into the cleaning directly into your existing manufacturing processes.

**DERUSTING PRODUCTS**

Cortec® acid removers ready to effectively remove rust and scale from steel, iron, copper, brass, chrome, and aluminum. They will not harm human skin or adversely affect road parts, electrical, wood, leather, varnishes, or rubber. Long-lasting, acid neutralizing products are formulated to be efficient, superior substrate finish for the job through on-surface rust, paint, and varnish.

**CLEANING PRODUCTS**

Our most robust cleaning compounds available on the market today are single blends of surfactants and detergents which lend their cleaning effectiveness. VpCI® Cleaners offer improved cleaning performance compared to standard cleaning products. VpCI® Cleaners have the unique ability to remove such deposits as heavy hydrocarbons, grease, sludge and oily compounds, and inorganic compounds.

**VpCI®-422** is an organic acid cleaner that is superior to phosphoric, hydrochloric, and nitric acids. It is non-toxic, non-corrosive, non-polluting, and non-hazardous. It is safe to use on all metal parts, plates, sheets, tanks, cylinders, or valves. VpCI®-422 is a superior choice for cleaning.

**VpCI®-423 Gel** is a rust inhibitor that is superior to phosphoric, hydrochloric, and nitric acids. It is non-toxic, non-corrosive, non-polluting, and non-hazardous. It is safe to use on all metal parts, plates, sheets, tanks, cylinders, or valves. VpCI®-423 is a superior choice for cleaning.

**VpCI®-426 Gel** removes rust and scale from steel, iron, copper, brass, chrome, and aluminum. It is non-toxic, non-corrosive, non-polluting, and non-hazardous. It is safe to use on all metal parts, plates, sheets, tanks, cylinders, or valves. VpCI®-426 is a superior choice for cleaning.

**VpCI®-427** is a heavy-duty cleaner that is superior to phosphoric, hydrochloric, and nitric acids. It is non-toxic, non-corrosive, non-polluting, and non-hazardous. It is safe to use on all metal parts, plates, sheets, tanks, cylinders, or valves. VpCI®-427 is a superior choice for cleaning.

**VpCI®-414** is a cleaner and degreaser that is superior to phosphoric, hydrochloric, and nitric acids. It is non-toxic, non-corrosive, non-polluting, and non-hazardous. It is safe to use on all metal parts, plates, sheets, tanks, cylinders, or valves. VpCI®-414 is a superior choice for cleaning.

**VpCI®-416** is a cleaner and degreaser that is superior to phosphoric, hydrochloric, and nitric acids. It is non-toxic, non-corrosive, non-polluting, and non-hazardous. It is safe to use on all metal parts, plates, sheets, tanks, cylinders, or valves. VpCI®-416 is a superior choice for cleaning.

**VpCI®-418 LM** is a heavy-duty cleaner that is superior to phosphoric, hydrochloric, and nitric acids. It is non-toxic, non-corrosive, non-polluting, and non-hazardous. It is safe to use on all metal parts, plates, sheets, tanks, cylinders, or valves. VpCI®-418 LM is a superior choice for cleaning.

**VpCI®-432/433** are rust inhibitors that are superior to phosphoric, hydrochloric, and nitric acids. They are non-toxic, non-corrosive, non-polluting, and non-hazardous. They are safe to use on all metal parts, plates, sheets, tanks, cylinders, or valves. VpCI®-432/433 are a superior choice for cleaning.



**STRUCTURAL STEEL**

Steel structures exposed to an aggressive Off-Road and Mining environment needs to be protected with a sophisticated treatment and may need to be designed with maintenance in mind if standards are required. The optimum protection treatment offered by Cortec®, which combines appropriate surface preparation, suitable coating systems, required durability and maximum cost, is available with modern surface treatment technology.

**HIGH PERFORMANCE COATINGS FOR OFF-ROAD AND MINING INDUSTRIES**

Cortec® can reduce your current costs with a sophisticated surface treatment. From our extensive list of standard coatings, Cortec® coatings have outstanding corrosion and long-term performance. Cortec® coatings offer superior performance and a longer life cycle. With the application of VpCI® technology, your equipment and products will be protected from corrosion by saltwater and cooling atmosphere as well as corrosive vapors, moisture, and industrial environments.

**Corrosion Inhibitor Particles**

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**CorrVert™** is a water-based primer coating which exhibits excellent performance over various substrates. Primarily designed for the automotive underbody/undercoat market, it also has applications in industrial maintenance, vehicle, truck/bus, and heavy marine rust, peeling down to the bare metal, and blue/white/gray.

**CorrBarrier™** is a water-based primer coating which exhibits excellent performance over various substrates. Primarily designed for the automotive underbody/undercoat market, it also has applications in industrial maintenance, vehicle, truck/bus, and heavy marine rust, peeling down to the bare metal, and blue/white/gray.

Cortec® products have been developed using proprietary VpCI® Technology. Vapor phase Corrosion Inhibitors (VpCIs) offer an environmentally safe method of treatment with low toxicity and low polluting effects. Unlike corrosion inhibiting systems of the past, many of Cortec® VpCIs do not contain chromates or other heavy metals, nitrites, or chlorinated hydrocarbons. With Cortec® VpCIs you can turn the tables on corrosion. With the support of our corrosion scientists, engineers, and testing facility, Cortec® can provide simple, environmentally friendly, cost-effective solutions for any corrosion problems.



**CLEAN, PROTECT, PRESERVE CYCLE**

Cortec's Clean, Protect, Preserve Cycle for the Off-Road and Mining industries begins with the quality and safety check of parts. To achieve the very highest standards in corrosion protection, these parts and the performance are analyzed and the quality of parts is addressed by Cortec® at every stage. Repeated checks are made and tests are applied to ensure that every product meets the strictest standards on quality.

Parts are evaluated for corrosion based on the length of its storage, damage caused, the look, condition of the part, and the packaging path is determined. The parts are then cleaned. If necessary, existing corrosion is removed. The product is dipped, sprayed, or treated if required without being given time to dry, and then neutralized with Cortec's environmentally friendly products.

Once primary protection is reached through cleaning the parts, packaging, coating, or both can be utilized to further the corrosion protection process. This can be done through Cortec's packaging, coating, bags, wraps, VCI® sprays, or Vapor for extra long-term. The length of storage and speed should be assessed to determine the best path to products to your location.

Finally, the product is preserved, thus reducing labor costs and increasing efficiency. The Clean, Protect, Preserve Cycle helps to keep quality parts in great working condition.

**01** Quality and Safety Check

**02** Cleaning

**03** Primary Protection


**04** Secondary Protection

**05** Final Preservation

This brochure illustrates the innovation of VpCI® technology in high-performance Cortec® coatings, which are unique from traditional coatings in their ability to penetrate and protect micro-cavities to prevent micro-corrosion in structured steel machinery. In addition to these coatings, Cortec® also offers solutions for machinery maintenance as well as processing and storage of machinery for a continuous self-replenishing vapor that protects exposed metal surfaces regardless of temperature or humidity.

Cortec® aims to provide a total solution for the protection from corrosion in the off-road and mining industries. Cortec's Clean, Protect, Preserve Cycle helps to keep quality, safe parts in great working condition, from primary protection in the initial stage to utilization of packaging and coating to prevent future damage.

With the support of our state-of-the-art corrosion scientists, engineers, and testing facility, Cortec® can provide a simple, environmentally friendly, cost-effective solution to any corrosion problem.




**APPLICATIONS**

**PROCESSING/ STORAGE**

Simply wrap, stretch, or pack your products or equipment; protection is continuous for transit. A continuous self-replenishing vapor sends to protect all exposed metal surfaces regardless of temperature or humidity levels.

Cortec's VCP® films, papers, liners, corrugated, foams, and devices are made exclusively from high technology resins using proprietary exhaust techniques to ensure 100% quality of the physical, mechanical, and corrosion-inhibiting properties of all products produced. Our products meet the most rigorous international quality standards for corrosion-inhibiting films.


Using Cortec's VCP® films will ensure that valued assets are clean, dry, corrosion-free, and ready for shipping.



**MOTHBALLING PROCESSES**

When items are sensitive to natural weather conditions, seasonal dry-up, or longer term mothballing for asset, VCP® packaging solutions provide a low-cost, easy-to-apply solution that will preserve assets for periods of several months to over 10 years.

In cases where equipment or systems require keys, temporary shutdown, or long-term mothballing, Cortec® products can be applied back-to-back with film or to surface preparation (depending on the product). Cortec's VCP® MCP technology provides corrosion protection to external and internal metal surfaces and parts. The degree of protection needed is based on the severity of the environment and the length of exposure to corrosive elements. The protected system will be ready for immediate use when needed.



To view this innovative brochure in its entirety please visit the following link:

[http://www.cortecvci.com/whats\\_new/announcements/Mining\\_Brochure.pdf](http://www.cortecvci.com/whats_new/announcements/Mining_Brochure.pdf)

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Cortec® Corporation is the global leader in innovative, environmentally responsible VpCI® and MCI® corrosion control technologies for Packaging, Metalworking, Construction, Electronics, Water Treatment, Oil & Gas, and other industries. Our relentless dedication to sustainability, quality, service, and support is unmatched in the industry. Headquartered in St. Paul, Minnesota, Cortec® manufactures over 400 products distributed worldwide. ISO 9001, ISO 14001:2004, & ISO 17025 Certified. Cortec® Website: <http://www.cortecvci.com> Phone: 1-800-426-7832 FAX: (651) 429-1122