



CORTEC CORROSION SOLUTIONS

Cortec VpCI - Technology

Corrosion is a constant indiscriminate and costly enemy of parts whether when packaged for storage and distribution or during its manufacturing cycle in the shop. Traditional anti-corrosion methods are messy, costly and can be hazardous to personnel and the environment. Too often, they are ineffective as well.

Cortec VpCI technology represents a breakthrough solution in corrosion prevention. Cortec Corporation, USA is an ISO 9001 and ISO 14001 certified Company. Cortec VpCI products are environmentally safe, and do not contain nitrites or other harmful chemicals.

Cortec VpCI products are available in various forms such as liquids, powders, film, foam, paper etc. They provide multimetal corrosion protection by forming a mono molecular layer on the metal surface. The coverage is complete i.e., all surfaces, including crevices, cavities and other inaccessible void areas receive total protection.

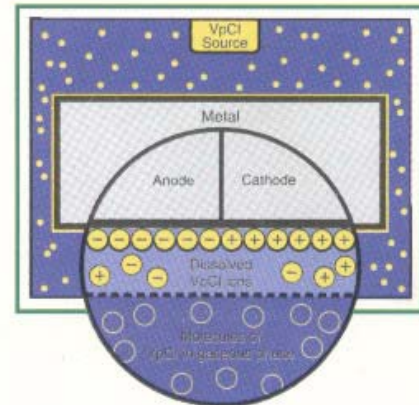
The VpCI barrier displaces moisture, reheals when disturbed and is self-replenishing, even for packaging that is opened and closed, and typically provides continuous protection for upto 24 months even in harsh and hostile conditions.

The result is exceptional product protection, without the labor-intensive application and clean-up that is required with conventional oil coatings or other inhibiting products.

Cortec VpCI Benefits

- Multifunctional products
- Cost Effective - reduces operations and saves costly time and labor
- Eliminates requirements of other rust preventive oils and desiccants
- Eliminates disposal costs
- Multimetal Protection from tiny electronic devices to large equipments
- Convenient and user-friendly to applicator and end user
- Safe for Personnel and Environment
- Gives short term and long term protection
- Industry proven track record
- Total corrosion control from raw materials to final user in a variety of industries.

FIGHT CORROSION



Cortec range of Corrosion Protection Products

VpCI Liquids & Powders

Product	Brief Description	Application Areas	Remarks
Cortec VpCI 329	Vapour phase corrosion inhibiting liquid in oil base.	As an additive to lubricants, hydraulic and gear oils to enhance their corrosion inhibiting properties. To protect vehicle fuel tanks, gear boxes and closed-loop systems.	Protection up to 24 months indoors. Three phase action protects submerged and exposed areas.
Cortec VpCI 368	Vapour phase corrosion inhibitor in solvent base, for outdoor multimetal protection.	For protection of machine components, forgings, crankshaft, castings, chains, valves, turbine parts, etc.	Dry, waxy film protects up to 24 months even under outdoor conditions.
Cortec VpCI 369	Vapour phase corrosion inhibitor in oil base, for outdoor multimetal protection.	As an edge spray for cold rolled coils and sheets and formed sheet metal parts, pistons, cylinders, machinery, etc. Also as an additive to oil.	Tacky translucent film protects up to 24 months even under sheltered outdoor conditions. Gives good lubricity for moving and sliding surfaces.
Cortec VpCI 377	Vapour phase corrosion inhibitor in water base, for indoor Applications.	For protection of castings, pumps, vessels, forgings, etc. where oil based coatings are not desirable. Also as an additive to water.	Clear dry film protects up to 24 months indoors. No housekeeping and cleaning problems associated with oils.
Cortec VpCI 386	Water based acrylic coating for outdoor open atmospheres.	For protection of vessels, tanks, cranes, excavating and drilling equipments, structural steel members and automotive battery terminals.	Clear, dry, hard and glossy film protects Ferrous materials and Aluminium up to 18 months.
Cortec VpCI 388	Waterborne corrosion inhibitor for outdoor/sheltered applications.	For protection of parts, machined and painted surfaces and equipments during storage and shipping.	Dilutable with DM water. Firm and dry film. To be applied by spray, brush, roll or dip. Protects up to 24 months indoors.
Cortec VpCI 389	Waterborne coating for outdoor and indoor protection.	Parts storage, overseas shipping, work-in-progress protection and equipment lay-up.	Safe and environmentally friendly product that protects multimetal for a period of up to 24 months. Water reducible and hence economical.
Cortec VpCI 419	Water based Heavy Duty Cleaner - Degreaser concentrate.	Cleans oil, grease, dirt and hydrocarbon deposits. Dilutable up to 1:20 with water.	Used via dipping tanks, cleaning equipments, washing and spraying systems.
Cortec VpCI 609	Vapour phase corrosion inhibitor in powder (water-soluble) form for indoor enclosed applications.	For dry/wet protection of components, equipment internals and recessed areas, cavities and voids that can be covered or closed after application.	Protects up to 24 months. Three phase action protects even in the presence of water.
Cortec S 69	Additive package to water and water treatment formulations.	Additive to hydro test water. Helps to preserve internal surfaces of idle equipments such as boilers. Protects ferrous & non-ferrous metals from corrosion & pitting.	Effective even at very low dosage, starting from 0.5%. Very cost-effective.

VpCI Packaging Products

Product	Description	Protection	Standard Packaging
Cortec VpCI 126 Film	Multimetal, non-toxic, recyclable, transparent film. Multifunctional VpCI/desiccant. Available in a variety of construction, including bags, heat sealable. Conforms to MIL-B-22019C. Patented. FDA approved.	Varies	1) Tubing rolls of dia. 6", 12", 18" and 48" x 1000' length each 2) Sheet rolls of width, 12", 24", 36" and 96" x 1000' length each 3) Heat sealable bags of size 6" W x 4" L; 6" W x 8" L; 12" W x 10" L; 12" W x 18" L; 18" W x 24" L or custom size
Cortec VpCI 132 Foam Pad	VpCI impregnated foam pad. 10" (L) x 10" (W) x 1/4" (H). Multimetal, non-toxic and nitrite free.	Upto 8.0 ft. ² / pad	250 pads / carton
Cortec VpCI 146 Paper	Multimetal VpCI coated high quality natural base paper. Non-toxic, nitrite free, 100% recyclable / repulpable, excellent for single item packaging. FDA approved.	Varies	36" W x 600' L rolls 48" W x 600' L rolls
Cor-Pak™ VpCI Stretch Film	Multimetal, non-toxic, recyclable, transparent VpCI stretch film. Stretches up to 300%. Excellent puncture and tear resistance. Machine and hand grades available. FDA approved. Patented.	Varies	Hand Wrap: 12" W x 1500' L x 1 MIL rolls
Cor-Pak™ Tablets	Multimetal VpCI tablet. Easy to use, dosage is easily adaptable. Manually or automatically inserted	1/4 ft. ² / tablet	4000 tablets / carton
Cortec VpCI 105 - Emitter VpCI 111 - Emitter VpCI 150 - Foam Tape	VpCI in the form of emitter / adhesive foam tape. Provides multimetal protection upto 24 months for electrical and electronic parts and components even in polluted, humid and marine environments.	VpCI 105: upto 5ft' VpCI 111: upto 11ft' VpCI 150: upto 0.4ft' Per linear inch of tape	VpCI 105: 20 emitters / carton VpCI 111: 10 emitters / carton VpCI 150: 6 rolls / carton

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