

# VpCI<sup>®</sup> Electrical & Electronic Products

for the protection of electronics,  
enclosures, instrumentation,  
controls, and O.E.M. applications.



**CORTEC**  
CORPORATION

*Environmentally Safe VpCI/MCI<sup>®</sup> Technologies*



# Cortec VpCIs® for Electrical & Electronic Products

## Cortec® VpCI™ Emitting Systems

Cortec offers a complete full-service line of products in convenient-to-use sizes. Cortec products are an excellent quality assurance tool for everything from major manufacturers of electronics to do-it-yourself home-built kits. Corrosion can be stopped at any step from manufacturing to final installation. Integrate all your electronic/electrical protection needs from a single source supplier.

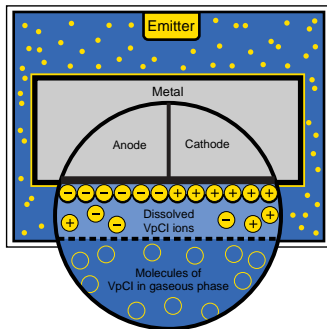
## Cortec® Emitting Systems Offer Reliability, Service Life and Cost Reduction.

Corrosion of complex electrical and electronic equipment is an increasingly serious problem, causing expensive failures. Corrosion occurs during manufacturing, shipping, storage and field operations. It can be caused by:

- Salt, moisture and airborne contaminants, hydrogen sulfide, sulfur dioxide, ammonia or acid rain
- Galvanically-induced attack
- Equipment operation in non-controlled atmospheres

With Cortec Emitting Systems, sensitive equipment is protected against corrosion, thereby extending its life and reducing the cost of expensive repairs.

## How Cortec® VpCI Emitters protect your equipment.



Cortec VpCI devices, emitters and tapes are designed to protect products, components or parts against corrosion when enclosed in non-ventilated housings, control boxes or other enclosures. The VpCI Emitter releases a vapor into the interior of the package. The vapor then deposits on the metal surface and forms a protective molecular layer. This layer of VpCI provides multimetal protection and helps reduce corrosion from moisture attack in the enclosure.

## Cortec® products are environmentally friendly.

Many toxic materials such as lead, chromium, cadmium, nickel and zinc are presently being used by electronics manufacturers to avoid the effects of corrosion. Cortec products prevent corrosion and are non-toxic, safe to handle and apply, and free of nitrites and silicones. They allow manufacturers to develop environmentally friendly "green" products while using fewer toxic materials.

## Cortec® VpCI® products solve corrosion problems in design, packaging and field operation of complex equipment.

Cortec VpCI products are excellent for use in the following applications:

- Electrical panels
- Electronic enclosures
- Tool and spare part boxes
- Electromechanical controls
- Switch gear and relay cabinets
- Marine, aerospace and military instruments
- Light fixtures, monitoring and alarm systems
- Junction fuse boxes and wire ways, bus bars
- Computers and telecommunications equipment
- Control panels for manufacturing equipment
- Scientific instruments
- Many more!

## Features

- Provides continuous long-term corrosion protection
- Economical to apply
- Effective in polluted and humid atmospheres
- Non-toxic and safe to handle and apply
- Free of nitrites, silicones and phosphates
- The molecular VpCI™ layer does not interfere with electrical, optical or mechanical surface properties
- Multimetal protection
- Adhesive backing allows fast, no-tool installation
- Does not require removal prior to start-up
- Protects during equipment operation
- No or surface preparation required
- Multifunctional protection: VpCI, static dissipating and desiccant ability
- Compact space-saving design suitable for OEM applications
- Low V.O.C. values; exceeds Southern California Clean Air Act and other local environmental requirements

## Benefits

- Cost Reduction
  - Reduced consumption
  - Materials
  - Labor
  - Time
- Value Added Product/Service
- Peace of Mind During Shipping/Storage
- Less Periodic Maintenance
- Reduced Surface Preparation

## VpCI® Electrical & Electronic Products



### Cortec® VpCI-101 Patented

- Patented VpCI impregnated foam
- Continuous corrosion protection
- Non-toxic
- NSN# 6850-01-338-1392
- MIL-B-81705C
- FDA approved
- USDA approved

### Cortec® VpCI-105 and VpCI-111 Patented

- One way Tyvek release membrane
- Nitrite, silicone and phosphate free
- Economical protection
- Long lasting protection
- Non-toxic
- Easy installation
- No residue

### Cortec® VpCI-110 Patented

- Foam emitter with a breathable, open-cell construction
- Protects 10 cubic feet (283 liters) of enclosed space for up to two years
- Meets NSN# 6850-01-336-1343.
- Self-stick back and self-stick label on which to write the installation date
- FDA, USDA approved





### Cortec® VpCI-125 Patented

- VpCI impregnated film
- Excellent corrosion protection
- Superior dissipative qualities
- MIL SPEC# B-22020C II
- MIL SPEC# B-81705C II
- MIL SPEC# PRF-817050
- FDA approved
- USDA approved



### Cortec® VpCI-150 and VpCI-170 Patented

- VpCI impregnated foam tapes with adhesive backing
- Corrosion protection lasts up to two years.
- NATO# 8030-00-244-1299, MIL-B-81075C, NSN 8030-01-208-1769
- FDA, USDA approved.

### ElectriCorr® VpCI-286

- Conforms to surface
- Continuous corrosion protection
- Fast drying
- No VOC's
- UV indicator
- Vibration resistant
- Extends board life

### ElectriCorr® VpCI-238

- Instant corrosion/ oxidation protection
- No CFC's
- Displaces moisture
- Anti-static
- 2 year indoor protection
- NSN# 6850-01-413-9361

### ElectriCorr™ VpCI™ 248

- Non-flammable
- Does not alter electrical resistance
- Protects electronic and electrical contacts
- Fast drying
- Non-conductive
- Excellent cleaning action
- NSN# 6850-01-413-9361



### ElectriCorr® VpCI-239

- Excellent outdoor corrosion protection
- Designed for aggressive environments
- Non-conductive
- Anti-static
- Perfect for exposed contacts and relays
- UV Indicator

### Corwipe® 500 Patented

- Strong Dupont Sontara® wipe
- Cleaner/Degreaser
- Anti-Stat
- Removes surface rust
- Corrosion inhibitor for multimetals
- Disposable



### Corrosorbent™

- Absorbs corrosive gases
- Irreversible reaction
- Non-toxic
- Superior performance against SO2
- Changes color as it is used up
- Quick installation



### Cor-PaK® I MUL Pouches Patented

- No cleaning
- Self replenishing
- 24-month protection
- Multi-metal protection
- Dual properties- dessicant/corrosion inhibitor

**BUYER'S GUIDE**

	PRODUCT	DESCRIPTION	PROTECTION	PACKAGING	APPLICATIONS
EMITTERS	VpCI-101	Vapor phase Corrosion Inhibiting device with adhesive backing 3" L x 1.25" W x 1/4" H (76 mm L x 32 mm W x 6 mm H) Conforms to MIL-B-81075C, NSN 6850-01-338-1392. Patented, FDA, USDA Approved.	1.0 ft <sup>2</sup> (.03 m <sup>2</sup> )	50/carton	Operating, packaged and stored electrical equipment, marine navigation and communication equipment, aerospace electrical controls, electric motors, switching equipment, fuse boxes, medical equipment, electrical wireways, terminal boxes, scientific and measuring instruments, telecommunications equipment, control panels for manufacturing and processing equipment.
	VpCI-105	Vapor phase Corrosion Inhibiting Emitter with breathable membrane 2.3" diameter x 0.75" H (58.4 mm diameter x 19 mm H) NSN 6850-01-406-2060, NSN 6850-01-408-9025. FDA, USDA Approved.	5.0 ft <sup>2</sup> (.14 m <sup>2</sup> )	20/carton	
	VpCI-110	Vapor phase Corrosion Inhibiting Emitter 2.5" diameter x 2" H (64 mm diameter x 51 mm H) NSN 6850-01-336-1343. Patented, FDA, USDA Approved.	10.0 ft <sup>2</sup> (.28 m <sup>2</sup> )	12/carton	
	VpCI-111	Vapor phase Corrosion Inhibiting Emitter with breathable membrane 2.3" diameter x 1.27" H (58.4 mm diameter x 32.3 mm H) NSN 6850-01-406-2060, NSN 6850-01-408-9025. FDA, USDA Approved.	11.0 ft <sup>2</sup> (.31 m <sup>2</sup> )	10/carton	
	VpCI-133	Vapor phase Corrosion Inhibiting Squares with adhesive backing 1" L x 1" W x 1/4" H (2.5 cm x 2.5 cm x 0.64 cm) Conforms to MIL-B-81075	0.33 ft <sup>2</sup> (.01 m <sup>2</sup> )	Approx. 1000/carton	
	VpCI-150	Vapor phase Corrosion Inhibiting Foam Tape with adhesive backing 12" L x 3/4" W x 1/4" H (3.7 m x 19 mm x 6 mm) Conforms to MIL -B-81075C, NSN 8030-01-208-1769, NATO 8030-00-244-1299. Patented, FDA, USDA Approved.	0.4 ft <sup>2</sup> /in. (.005 m <sup>2</sup> /cm)	6 rolls/carton	
	VpCI-170	Vapor phase Corrosion Inhibiting Foam Tape with adhesive backing 20" L x 2" W x 1/4" H (6.1 m x 51 mm x 6 mm) Conforms to MIL -B-81075C, NSN 8030-01-208-1769, NATO 8030-00-244-1299. Patented, FDA, USDA Approved.	1.0 ft <sup>2</sup> /in. (.03 m <sup>2</sup> /cm)	1 roll/carton	
PACKAGING	VpCI-125	Static dissipative and Vapor phase Corrosion Inhibiting bags and sheeting, Conforms to MIL-B-22019C, MIL-B-22020C, MIL-B-81705C Type II, and MIL-PRF-81705D. Patented, FDA, USDA Approved.	Varies	Standard and custom sizes	For storage and/or packaging of sensitive electronic equipment. For wrapping or inserting with packaging material.
	VpCI-137	Static dissipative Vapor phase Corrosion Inhibiting foam 130" L x 54" W x .25" (39.6m x 1.35m x 0.625 cm) Conforms to MIL-B-22110B, MIL-B-81705C Type II, MIL-PRF-81705D, NSN 6950-01-426-3539. Patented, FDA, USDA Approved.	Varies	Custom Available	
	Cor-Pak® 1 MUL	Multifunctional pouch with VpCI/desiccant action 2.5" L x 2.5" W x .125" H (6.4 cm x 6.4 cm x 0.3 cm) Meets SA 8030012081769.	1.0 ft <sup>2</sup> (.03 m <sup>2</sup> )	Pouch with VpCI 300/carton	Small voids, electronics, parts shipping, packaging; dustless
CORROSORBER	Corrosorber™	Capsule for absorption of corrosive gases 2.3" diameter x 1.27" H (58.4 mm diameter x 32.3 mm H)	10.0 ft <sup>2</sup> (.28 m <sup>2</sup> )	10/carton	Corrosorbers absorb hydrogen sulfide and other corrosive gases.
CORWIPE	Corwipe® 500	Lint-free Dupont Sontara® wipe for cleaning and protecting equipment, tools and all raw and coated metals. This strong, non-hazardous, water-based is safe to use even with food processing equipment. Patented.	varies	12 wipes per re-sealable foil pouch/12 foil pouches per carton	Test equipment, computers, PC boards, aircraft and satellite components, audio and video equipment, power terminals, any sensitive raw or painted metal parts or equipment.
SPRAY	ElectriCorr® VpCI-238	Multifunctional contact cleaner and multimetal corrosion inhibitor 12 oz. (340 g) cans, drums. Conforms to NSN 6850-01-413-9361.	50.0 ft <sup>2</sup> /can (4.65 m <sup>2</sup> /can)	6 cans/carton 5 gal (19 l) 55 gal (208 l)	Integrated circuitry, bus bars, electrical stations
	ElectriCorr® VpCI-239	Outdoor version of VpCI-238 12 oz. (340 g) cans, drums	50.0 ft <sup>2</sup> /can (4.65 m <sup>2</sup> /can)	6 cans/carton 5 gal (19 l) 55 gal (208 l)	Integrated circuitry, bus bars, outdoor electrical connections
	ElectriCorr® VpCI-248	Non-flammable contact cleaner and multimetal corrosion inhibitor 12 oz. (340 g) cans, drums. Conforms to NSN 6850-01-413-9361.	50.0 ft <sup>2</sup> /can (4.65 m <sup>2</sup> /can)	6 cans/carton 5 gal (19 l) 55 gal (208 l)	Integrated circuitry, bus bars, electrical stations
	ElectriCorr® VpCI-286	Acrylic-based conformal coating 11 oz. (312 g) aerosol cans, drums	240-320 ft <sup>2</sup> /gal @ 1 mil (6-8 m <sup>2</sup> /l @ 25 microns)	6 cans/carton 5 gal (19 l) 55 gal (208 l)	Manufacture and field repair of printed circuit boards

Visit our website for more information on Cortec® Vapor phase Corrosion Inhibitors™.

**CortecVCI.com**

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printed on recycled paper 10% post consumer

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