



**CORTEC**  
CORPORATION

Environmentally Safe VpCI®/MCI® Technologies

# MRO INDUSTRIAL CORROSION CONTROL PRODUCTS

*Electrical & Electronics*

*Maintenance & Repair*

*Eco Products*

*VpCI® Additives*

*Concrete Protection*





# MRO & INDUSTRIAL

**C**orrosion is an incredibly destructive force facing everyone who works with metal. In the United States alone corrosion costs industry, and ultimately the consumer, over 350 billion dollars. But that's only part of the story. Many corrosion protection methods employed are less than effective, and worse, are inherently damaging to the earth's environment.



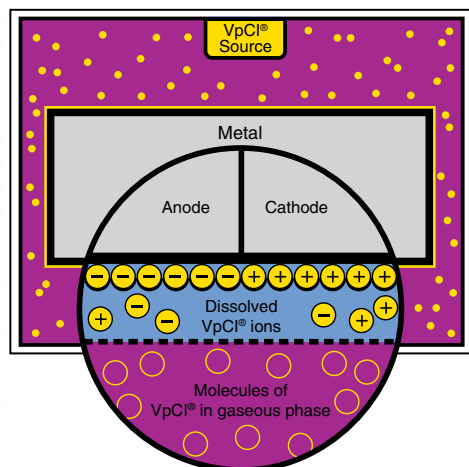
In 1977, as a fledgling company working out of a garage in St. Paul, Minnesota, we had a vision to effectively combat the devastating effects of corrosion, while at the same time creating environmentally friendly alternatives to existing methods of corrosion protection. Through commitment, hard work, and extensive research and development we pioneered the application and distribution of VpCI® (Vapor phase Corrosion Inhibiting) technologies. We're producing a full line of multifunctional products that promise unparalleled benefits to you, our customers.

Through the years, Cortec® Corporation has grown to become the world's leader in corrosion protection technology. But regardless of how large we become, the vision and commitment we began with in that little garage will always remain: to provide corrosion protection to help you increase profits, improve product quality and reduce waste and pollution.

The way we look at it, being a world-leader in VpCI® Technology has its responsibilities.

## VpCI® Technology

**Ionic Action of VpCI® Creates a Molecular, Inhibiting Layer.**



VpCI®:

- Vaporizes.
- Conditions enclosed atmosphere with a protective vapor.
- Vapor migrates to all recessed areas and cavities.
- Vapor condenses on all metal surfaces.
- Ions dissolve in moisture layer (water electrolyte).
- Protective ions are attracted to metal surfaces.
- Ions form a thin, monomolecular protective layer at the metal surface.
- Protective layer re-heals and self-replenishes through further condensation of the vapor.

Visit us at [www.cortecvci.com](http://www.cortecvci.com)

For technical information call **(800) 4-CORTEC**



# MRO & INDUSTRIAL

**CORTEC®  
PRODUCTS**

## More Effective Corrosion Inhibitors

### **Health, safety and pollution control.**

Cortec's formulations, using the newest chemical technology available, help alleviate your concerns in the areas of health, safety, flammability and pollution control.

### **Multimetal protection.**

A full range of corrosion inhibitors are available to protect ferrous and non-ferrous metals, including formulations that protect combinations of metals.

### **Short- and long-term protection.**

There's a Cortec® solution whether you need temporary protection during in-plant processing, medium-term protection for shipment and storage or extended protection for a variety of environmental conditions. Now you can effectively protect your metals and products against humidity and aggressive atmospheres as well as against corrosive industrial, marine and tropical atmospheres.

### **Protected parts are immediately ready for use.**

The protective invisible layer deposited by Cortec® Vapor phase Corrosion Inhibitors (VpCIs) needs no removal. In many cases, degreasing, scraping, cleaning or further preparation is not necessary before processing, installation or use. Your VpCI® protected components, parts and finished assemblies are always ready for immediate use.

### **Does not alter most material properties.**

In the majority of cases, the invisible protective ionic layer of Cortec® VpCIs does not alter important surface properties. This is true even for precision electronic devices where conductivity, permittivity and dimensional tolerances are crucial.

### **For tiny electronic devices to tanker holds.**

Cortec® VpCIs protect any size product — from printed circuit board components in processing, or parts stored in a small box, to large transport container shipments.

Cortec® Corporation of St. Paul, MN is the world's largest manufacturer of VpCI® (Vapor phase Corrosion Inhibitor) chemical products. In addition to excellent customer service and satisfaction, Cortec® has ISO 9001 and 14001 certifications- standards which reflect a dedication to quality and environmentally safe systems.

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## Emitter System Features

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

# EMITTERS



## Eco Emitter®

- Eco Emitter® constructed from biodegradable and renewable materials.
- Eco Emitter® protects 9 cubic feet.
- One way Tyveck release membrane.
- Non-toxic.
- Easy installation.
- No residue.

Part #	Size	Type
	11 ft <sup>3</sup> . (3.35 m <sup>3</sup> .)	Emitter

## VpCI® Foam Device 101

- Patented VpCI® impregnated foam device.
- Continuous corrosion protection
- Non-toxic
- NSN# 6850-01-338-1392
- USDA approved



Part #	Size	Type
15000007	1 ft <sup>3</sup> . (0.3 m <sup>3</sup> .)	Emitter

## Corrosorber®

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



Part #	Size	Type
15001333	11 ft <sup>3</sup> . (3.35 m <sup>3</sup> .)	Emitter



## Desicorr®/Desicorr VpCI®

- Desicorr VpCI® offers dual VpCI® protection
- Both have desiccant protection
- Non Toxic
- No degreasing or cleaning or part required.
- MIL-D-3464E Type I & Type II

## VpCI® Emitter Cup 105/111

- One way Tyveck® release membrane
- Nitrite, silicone and phosphate free
- Economical, long lasting protection
- Non-toxic
- Easy installation
- No residue
- 105: NSN# 6850-01-406-2060
- 111: NSN# 6850-01-408-9025



\* Tyveck® is a registered trademark of DuPont Worldwide

Part #	Size	Type
15000092	5 ft <sup>3</sup> . (1.52 m <sup>3</sup> .)	Emitter
15000386	11 ft <sup>3</sup> . (3.35 m <sup>3</sup> .)	Emitter

## VpCI®-125 Static Dissipative Bag

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



\* Available in custom sizes please contact Cortec® Customer Service  
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# ElectriCorr®

## ELECTRICAL & ELECTRONICS

### Cortec® VpCI® Products

### General 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!



#### ElectriCorr® VpCI®-238 Cleaner/Protectant

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

Part #	Size	Type
35661104	9.45 oz. (0.28 l.)	Aerosol
16900304	5 gal. (18.93 l.)	Pail
16900305	55 gal. (208.2 l.)	Drum



#### ElectriCorr® VpCI®-248 Non-Flammable Cleaner/Protectant

- Non-flammable
- Does not alter electrical resistance
- Protects electronic and electrical contacts
- Fast drying
- Non-conductive
- Excellent cleaning action

Part #	Size	Type
35602516	9.45 oz. (0.28 l.)	Aerosol



#### ElectriCorr® VpCI®-239 Extreme Environment/Outdoor Cleaner/Protectant

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

Part #	Size	Type
35661097	9.45 oz. (0.28 l.)	Aerosol
16900996	5 gal. (18.93 l.)	Pail
16903510	55 gal. (208.2 l.)	Drum



#### ElectriCorr® VpCI®-286 Conformal Coating

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

Part #	Size	Type
35660423	12 oz. (0.35 l.)	Aerosol
12503065	5 gal. (18.93 l.)	Pail
12503066	55 gal. (208.2 l.)	Drum



#### EnviroSafe Contact Cleaner

- Removes oil, grease and dirt
- No residue
- Non-flammable
- Professional use only

#### Typical Applications:

- Alternative to 141b
- Electrical equipment
- Relays and switches
- Controls

Part #	Size	Type
36211122	15 oz (425 g.)	Aerosol

• Custom



#### Universal Contact Cleaner

- Fast drying, general purpose cleaner
- Plastic safe
- Deep penetration
- Not for use on energized equipment
- No CFC, HCFC or ODP

#### Typical Applications:

- Electrical equipment
- Motor parts and brushes
- Relays and switches

Part #	Size	Type
36211118	9 oz (255 g)	Aerosol

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# INDUSTRIAL CLEANERS



## CorrClean VpCI®-415 Water-based Foaming Cleaner

- Biodegradable
- Water-based
- Superior foaming action
- Rinses clean
- Safe on all surfaces
- Prevents Corrosion
- Conforms to MIL SPEC# MILPRF-87937C

Part #	Size	Type	
36102569	18 oz. (.53 l.)	Aerosol	• Custom
11603661	5 gal. (18.93 l.)	Pail	
11603662	55 gal. (208.2 l.)	Drum	

## Cortec® VpCI® Industrial Cleaners Features

- VpCI® enhanced
- Non-corrosive
- High performance based degreasers
- Non-chlorinated
- Safe handling
- Non-conductive
- Biodegradable alternatives
- No TCE
- No HCFC's
- Eliminates disposal problems



## CorWipe® 300 & 500

- Cleaner/Degreaser
- Anti-Stat(500)
- Removes surface rust
- Corrosion inhibitor for multimetals
- Disposable

Part #	Size	Type
36161110	25 Ct. Container	500 Wipe
36161092	72 Ct. Container	300 Wipe



## CorrClean VpCI®-411 Citrus Cleaner

- Industrial strength citrus based degreaser
- Non-conductive
- Cuts grease and oil
- Ideal for adhesives and tar
- No chlorinated solvents
- Controlled evaporation

Part #	Size	Type	
36161137	11 oz. (0.32 l.)	Aerosol	• Custom
11603506	5 gal. (18.93 l.)	Liquid	
11603507	55 gal. (208.2 l.)	Liquid	



## CorrClean Brake and Parts Cleaner

- Non-chlorinated
- No residue
- Non-conductive
- Aggressive degreasing properties
- Fast evaporation

Part #	Size	Type	
36221003	15 oz. (0.44 l.)	Aerosol	• Custom
36222601	1 gal. (3.79 l.)	Liquid	



## Safe-T-Charge Pressure/Ultrasonic Parts Washer Additive

- Aggressive water based cleaner
- Safe handling in water soluble bags
- No measuring
- Low foaming
- Excellent flash corrosion resistance
- Biodegradable

Part #	Size	Type	
11602316	417 Ultrasonic Parts Washer	Low Foam	• Custom
11602317	418 Ultrasonic Parts Washer	No Foam	

## NEW PRODUCT



## BioLube All Purpose Lubricant

- Biodegradable
- Greaseless
- Excellent penetrant
- Bio-Based
- Friction modifier for extreme pressure loads

Part #	Size	Type
35602401	5 oz. (15.0 l.)	Aerosol

# LUBRICANTS

**MAINTENANCE & REPAIR**



## CorrLube VpCI® Penetrant

- Low surface tension
- Attacks rust
- Superior penetrating properties
- Lubricates and protects
- Excellent foaming action

Part #	Size	Type	
36002571	11 oz. (0.32 l.)	Aerosol	• Custom



## CorrLube VpCI®-325 Industrial Lubricant

- Displaces moisture
- Protects against corrosion
- Ideal routine maintenance lubricant
- Non-drying
- Indoor/outdoor surface lube

Part #	Size	Type	
36060427	8 oz (0.23 l.)	Aerosol	• Custom
12000430	5 gal. (18.93 l.)	Liquid	Stock
12000431	55 gal. (208.2 l.)	Liquid	Stock



## CorrLube VpCI® Lithium EP Grease

- NLGI grade: 2
- Good adhesion properties
- Resists water washout
- Excellent corrosion protection
- Ideal for all bearings

Part #	Size	Type	
12000220	14 oz. (0.41 l.)	Grease	• Custom
12000336	5 gal (18.93 l.)	Grease	Stock
12002332	16 gal (60.57 l.)	Grease	Stock
12000337	55 gal Drum (208.2 l.)	Grease	Stock



## CorrLube VpCI® EP Grease with PTFE

- NLGI grade: 2
- PTFE Additives
- Superior lubrication
- Excellent load bearing capabilities
- Optimum corrosion protection

Part #	Size	Type	
4277	14 oz. (0.41 l.)	Grease	• Custom
6414	5 gal (18.93 l.)	Grease	
6434	16 gal (60.57 l.)	Grease	

\* Available in 55 gallon drums.



## CorrLube VpCI® Motor Oil

- High performance
- API certified
- Excellent for gas or diesel engines
- Recommended for lay-up or for engines that are infrequently used or stored during the off-season
- Protects against internal corrosion

Part #	Size	Type	
36037010	32 oz./quart (0.95 l.)	10W-30	• Custom
36037015	32 oz./quart (0.95 l.)	15W-45	
12002335	5 gal.	10W-30	
12001986	5 gal. (18.93 l.)	15W-45	
12002336	55 gal. (208.2 l.)	10W-30	
12002333	55 gal. (208.2 l.)	15W-45	

\* 10W-30, available in 5 gallon pails.

## General Applications

- Conveyors
- Chains
- Cables
- Hinges
- Rollers
- Shafts
- Rails
- Pins
- Bearings
- Machinery
- Drives
- Motors
- Doors

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## MAINTENANCE & REPAIR

### Cortec® VpCI® Corrosion Inhibitors Features

- Multi-year protection
- Multi-metal protection
- Water based alternatives
- Dry film
- Wet film
- UV resistant
- Self-healing
- Constant VpCI® protection
- VpCI® does not require removal

### General Applications

- Outdoor storage
- Aircraft
- Elevators
- Storage tanks
- Vehicles
- Outdoor connections
- Pumps
- Cargo holds
- Marine equipment

# CORROSION INHIBITORS



### CorShield® VpCI®-368 Extreme Outdoor Corrosion Inhibitor

- Dry, hard, waxy film
- Excellent for corrosive environments
- Multi-year outdoor protection
- Contaminant resistant
- UV resistant
- MIL C-16173E
- MIL C-2218A
- MIL C-83933A
- NSN 8030-00-062-6950

Part #	Size	Type
35500037	11 oz. (0.32 l.)	Aerosol
12500038	5 gal. (18.93 l.)	Liquid
12500039	55 gal. (208.2 l.)	Liquid



### CorShield® VpCI®-369 Wet Film Lubricant and Corrosion Inhibitor

- Non-drying
- Excellent lubricity
- Self-healing
- MIL C-16173D (Grades 1, 2, & 4)
- NSN 8030-00-244-1297

Part #	Size	Type
35561106	11 oz. (0.32 l.)	Aerosol
12500041	5 gal. (18.93 l.)	Liquid
12500042	55 gal. (208.2 l.)	Liquid



### VpCI® CorrVerter®

- Stops rust and neutralizes oxidation
- No surface preparation needed
- Alternative to cleaning, sandblasting
- Water-based
- Non-toxic
- Non-flammable

Part #	Size	Type
12504113	16 oz. (0.47 l.)	Liquid
12504119	5 gal. (18.93 l.)	Liquids
12503120	55 gal. (208.2 l.)	Liquid • Custom



### Cor-Pak® 1-MUL Pouch

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

Part #	Size	Type
10500016	1 ft <sup>3</sup> . (0.3 m <sup>3</sup> .)	Emitter



### VpCI-126® Zipper Poly Bags

- Non-toxic
- VpCI® "charged" interior
- No residue
- Stops rust, tarnish, staining, white rust
- Eliminates cleaning after storage
- Recyclable
- Heat seal bags & roll-stock also available

Part #	Size	Type
20800109	3" x 5" (7.6 cm. x 12.7 cm.)	Bag
20800110	6" x 8" (0.15 m. x 0.2 m.)	Bag
20800111	10" x 12" (0.25 m. x 0.3 m.)	Bag
20800112	12" x 18" (0.3 m. x 0.46 m.)	Bag



\* Please ask our customer service for availability.

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**Soybean  
Product**

**EcoLine® VpCI® Surface Cleaner & Degreaser** is ready to use, industrial strength, neutral pH balanced and biodegradable.

**E**coLine® products are based on a renewable resource soybean derivatives, called soybean methyl esters. These Soya-based products provide excellent lubricity and biodegradability. EcoLine® products are better for the environment and leave behind a high performance VpCI® corrosion-protecting layer. These products have been developed in partnership with AURI and the Minnesota Soybean Research and Promotion Council.

**A** strong environmental concern is part of Cortec's past and future as Cortec® produces and sells products that protect metals of all kinds from environmental degradation. A strong commitment to produce products that can be recycled has been and will be our future policy.



## EcoLine® VpCI® Surface Bio-Based Cleaner & Degreaser

- Ready to use
- Industrial strength
- Designed to be used in industrial and commercial cleaning applications
- Neutral pH balanced
- Includes proprietary VpCI® corrosion protection after cleaning
- Biodegradable

Part #	Size	Type
35903568	16 oz. (0.47 l.)	Trigger Spray
12603557	5 gal. (18.93 l.)	Liquid
12603558	55 gal. (208.2 l.)	Liquid



## EcoLine® VpCI® Bio-Based Long Term Rust Preventative

- Multi-metal protection
- Designed to protect against salt spray and high moisture conditions
- Includes proprietary VpCI® long-term corrosion protection
- Biodegradable

Part #	Size	Type
35902419	16 oz. (0.47 l.)	Trigger Spray
12603084	5 gal. (18.93 l.)	Liquid
12603085	55 gal. (208.2 l.)	Liquid



## EcoLine® VpCI® Bio-Based Cutting Fluid

- Cools work piece and tools
- Provides corrosion protection and lubrication
- Non-toxic/non-hazardous
- Eliminate galling and seizing
- Biodegradable

Part #	Size	Type
35902420	16 oz. (0.47 l.)	Squirt Container
12601979	5 gal. (18.93 l.)	Liquid
12601980	55 gal. (208.2 l.)	Liquid

\* EcoLine® products are custom made.



**A**s soon as the ISO 14001 guidelines were published in 1996, Cortec® made the commitment to become ISO 14001 certified. In March 1998, Cortec® Corporation became one of the first companies in Minnesota to receive ISO 14001 certification.

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## Features

- VpCI® enhanced
- Bio-based Soya derivative
- Biodegradable
- Environmentally friendly
- Latest biotechnology
- Conforms to EPA's EPP criteria
- Non-flammable
- Meet USDA's Bio-based EO 13101
- Alternative to petroleum
- No CFC's or HCFC's
- Protects against corrosion
- Revolutionary technology

# EcoLine®



*EcoLine® Bio-Based All Purpose Lubricant is an easy to use biodegradable VpCI® lubricant which provides greaseless lubricity while it displaces moisture.*



## EcoLine® Bio-Based All Purpose Lubricant

- Displaces moisture
- Greaseless lubricity
- Modified for use with extreme pressure loads
- Includes proprietary (VpCI®) technology
- Biodegradable

Part #	Size	Type
35904108	16 oz. (0.47 l.)	Spray
12602787	5 gal. (18.93 l.)	Liquid
12602788	55 gal. (208.2 l.)	Liquid



## EcoLine® Bio-Based Bearing, Chain & Roller Lubricant

- Thermally stable
- Resists sling-off from high speed chains
- Prevents smoking when under load
- Reduces vibration and noise
- Biodegradable
- Non-flammable

Part #	Size	Type
12602346	16 gal. (18.93 l.)	Liquid
12602347	55 gal. (208.2 l.)	Liquid



## EcoLine® Bio-Based H-1 Food Grade Grease

- Biodegradable
- Meets USDA bio-based product definition
- Replaces traditional mineral oil based food grade greases
- Includes VpCI® technology
- Multi-metal protection

Part #	Size	Type
35906335	14 oz. (0.41 l.)	Grease
35906327	16 oz. (0.47 l.)	Grease
35962329	5 gal. (18.93 l.)	Grease

\* 55 gallon drums available.



## EcoLine® Bio-Based Premium Heavy Duty Grease

- Biodegradable
- Meets USDA bio-based product definition
- Superior lubricity
- Includes VpCI® technology
- Indoor and outdoor multi-metal protection

Part #	Size	Type
35902296	14 oz. (0.41 l.)	Grease
35900500	5 gal. (18.93 l.)	Grease
35900501	55 gal. (208.2 l.)	Grease

\* EcoLine® product are custom made.

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# EcoClean® & EcoSpray®



## EcoClean® 423 Rust Remover

- Removes surface rust, tarnish
- Excellent for rust stains
- 100% Biodegradable
- USDA approved
- Clings to vertical surface



## EcoClean® 433 Graffiti Remover

- Removes ink, wax, paint
- Non-corrosive
- Non-hazardous
- Gel clings to vertical surface
- Environmentally safe

Part #	Size	Type
35761150	16 oz. (0.47 l.)	Gel
11600105	5 gal. (18.93 l.)	Gel
11600106	55 gal. (208.2 l.)	Gel

Part #	Size	Type
35761149	16 oz. (0.47 l.)	Gel
11600733	5 gal. (18.93 l.)	Gel
11600734	55 gal. (208.2 l.)	Gel



## EcoSpray® 238 Electronic Cleaner

- Cleans and protects
- CFC free
- Displaces moisture
- Vapor phase protection in vented or unvented enclosure
- Does not alter electrical resistance



## EcoSpray® 416 Cleaner/Degreaser

- Heavy duty cleaner of grease, oil, soils
- Non-toxic
- Multi-metal corrosion protection
- Mild foaming
- USDA approved

Part #	Size	Type
35761147	16 oz. (0.47 l.)	Pump Spray

Part #	Size	Type
35761148	16 oz. (0.47 l.)	Trigger Spray
11600355	5 gal. (18.93 l.)	Liquid
11600356	55 gal. (208.2 l.)	Liquid



## EcoSpray® 325 Industrial Lubricant

- Environmentally friendly
- Universal corrosion protection
- Excellent penetrating properties
- Effective in adverse climate conditions
- Wet film/non-drying



Part #	Size	Type
35761145	16 oz. (0.47 l.)	Trigger Spray
12000430	5 gal. (18.93 l.)	Liquid
12000431	55 gal. (208.2 l.)	Liquid

Part #	Size	Type
35761146	16 oz. (0.47 l.)	Trigger Spray
12503555	5 gal. (18.93 l.)	Liquid
12503556	55 gal. (208.2 l.)	Liquid

## NEW PRODUCT



## EcoSpray® BioClean

- Non-toxic, non-hazardous
- Gentle & non-irritating
- Biodegradable and renewable
- Broad-spectrum antimicrobial properties
- Cans pressurized by air-not hazardous for shipment

Part #	Size	Type
35801001	12 oz. (0.35 l.)	Trigger Spray

**E**coSpray® and EcoClean® products attack the toughest maintenance duties while respecting the environment. They incorporate non-toxic, biodegradable chemicals without aerosols, propellants, or ozone-depleting CFCs. Fast-acting, dependable, and safe to handle, EcoSpray® and EcoClean® lead the way in environmentally safe technology.



**W**e are proud to introduce a major step forward in aerosol technology: EcoAir® air-powered aerosol products. For the first time in the industry, we are providing aerosol products that are powered by compressed air rather than traditional chemical propellants. This technology is innovative because product is filled into a four-layer Mylar EcoPouch inside the can, which is pressurized. As the valve is depressed, the surrounding pressure expels the bag's contents. The major advantages of EcoAir® technology are:

- Non-flammable
- No product contamination by propellant
- Safer to ship and store, with very low or no environmental impact
- Unique water-based products
- Spray in any direction, even upside-down



**EcoPouch**



**EcoAir® VpCI®-414  
Cleaner/Degreaser**

- Fast cleaning
- Water based
- Removes oil and grease
- Multi-metal protection
- Biodegradable

Part #	Size	Type
35860804	13 oz. (0.38 l.)	Air Powered



**EcoAir® VpCI®-422  
Non-toxic Rust Remover**

- Rust and stain remover
- Non-polluting
- Organic chemistry
- USDA approved
- Biodegradable

Part #	Size	Type
35860807	14 oz. (0.41 l.)	Air Powered



**EcoAir® VpCI®-324  
Anti-Bacterial Penetrant**

- Loosens rusty parts
- Displaces water
- Multi-metal protection
- USDA H-1 approval
- Low surface tension

Part #	Size	Type
35860800	10 oz. (0.3 l.)	Air Powered



**EcoAir® VpCI®-377  
Corrosion Preventative**

- Water based
- 1 year indoor protection
- Clean, dry, hydrophobic film
- Non-flammable
- Paintable
- Multi-metal protection

Part #	Size	Type
35860802	12 oz. (0.35 l.)	Air Powered

**NEW PRODUCT**



**EcoAir® VpCI®-337  
Vapor Charge Fogger**

- Excellent internal protection for crates, boxes and shipping containers
- Non-toxic
- Dries tack free
- Non-flammable
- Locking release valve

Part #	Size	Type
35860801	13 oz. (0.38 l.)	Air Powered



**EcoAir® VpCI®-389  
Rust Blocker**

- Excellent outdoor protection
- Multimetal protection
- Safe and easy to use
- Environmentally friendly

Part #	Size	Type
35860803	12 oz. (0.35 l.)	Air Powered



# LAYUP, STORAGE & MOTHBALLING



## Cooling Loop Gator®

- Dry or wet lay-up of cooling towers
- Environmentally friendly & non-toxic
- Compatible with cooling water chemistries
- Unique VpCI® action & three phase protection
- Up to 24 months protection with one application

Part #	Size	Type
13602242	4/2.2 lb. (1 kg.)	Powder

## Boiler Lizard®

- Dry lay-up of boilers
- Easy start up
- Environmentally friendly & non-toxic
- Compatible with boiler water chemistries
- Unique VpCI® action & three phase protection
- Up to 24 months of protection with one application

Part #	Size	Type
13602044	13.3 lb. (1.5 kg.)	Powder

## M-529 Multi-purpose Oil Additive

- Compatible with most types of engine oils, gear oils, hydraulic oils
- Unique VpCI® action & three phase protection
- Protects during the operation as well as the storage mode
- Easy-to-use

Part #	Size	Type
14503096	5 gal. (18.93 l.)	Oil Additive
14503097	55 gal. (208.2 l.)	Oil Additive
14502297	275 gal. (1041 l.)	Oil Additive



**N**eed for corrosion protection during a temporary or long term storage, lay-up, or a mothballing is a demanding application. As an industry leader, Cortec® employs the most effective and latest environmentally friendly technology in corrosion prevention for protective storage.

Examples of equipment protected with Cortec's VpCIs:

- Pumps
- Boilers
- Gear cases
- Electric motors
- Cooling towers
- Heat exchangers
- Compressor rotors
- Bearings & bushings
- Pressure vessels and tanks
- Diesel & gasoline engines

There are several other unique Cortec® products that are utilized in lay-up applications. Please consult your Cortec® representative for further details.

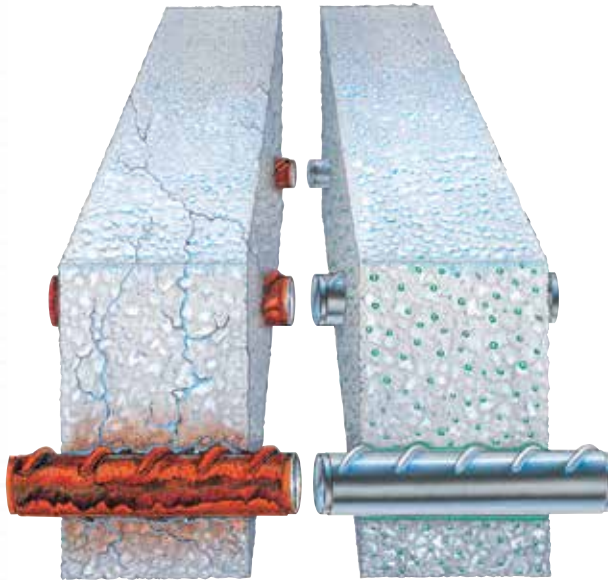
Visit us at [www.cortecvci.com](http://www.cortecvci.com)

For technical information call **(800) 4-CORTEC**

## CONCRETE PROTECTION

Cortec's patented MCI® technology protects reinforcing metal in concrete from corrosion. MCIs, Migrating Corrosion Inhibitors, rehabilitate existing concrete structures and extend the life span of new structures. Often corroding rebar in deteriorating concrete is the cause of costly repairs, financial losses, injuries and deaths, but Cortec® has the corrosion solution. Cortec® MCI® products for concrete maintain structural integrity, rehabilitate vulnerable structures and alleviate environmental concerns. A unique feature of MCI® is that the inhibitor will migrate a considerable distance through concrete to protect the embedded ferrous metals.

## MCI® PRODUCTS



*Cortec® makes a MCI® product that protects rebar in concrete from corrosion in new and existing structures (left). MCI® inhibitors will migrate a considerable distance through concrete to protect the embedded ferrous metals.*

*MCI®-2026 Floor Coating (right) meets all of the USDS guidelines for use in Federally inspected poultry and meat plants*



### MCI®-2039

- Two-component, fiber reinforced repair mortar
- Can be applied by trowel & normal rendering tools and/or a spray rendering machine
- MCI® not only offers corrosion protection to the repair area, but to adjacent areas as well
- Low modulus of elasticity
- Thixotropic

Part #	Size	Type
13500836	55.1 lb. (24.99 kg.) Part A	Powder
13500837	11.25 lb. (5.1 kg.) Part B	Liquid

### MCI®-2038

- Two-component, fiber reinforced repair mortar
- Can be applied by trowel & normal rendering tools and/or a spray rendering machine
- Similar properties to MCI®-2039, but with smaller aggregate for a smooth finish
- Thixotropic

Part #	Size	Type
13500834	55.1 lb. (24.99 kg.) Part A	Powder
13502436	11.25 lb. (5.1 kg.) Part B	Liquid

### MCI® Grenades

- MCI® admixture for new concrete construction or repair
- Does not affect air entrainment, compressive strengths or setting time of the concrete mix
- Does not contain calcium nitrate
- Non-flammable
- Environmentally friendly

Part #	Size	Type
13300953	MCI® Grenades	Powder/Bag
13302125	MCI® Metric Grenades	Powder/Bag
13302135	MCI® Mini Grenades	Powder/Bag

### MCI®-2022

- Water-based silane/siloxane based sealer
- Apply by spray, roller, squeegee or paint brush
- Non-toxic, contains no nitrites, phosphates or solvents
- Penetrates deep into concrete to block carbonation & Cl intrusion
- MCI® migrates to protect embedded steel reinforcement

Part #	Size	Type
13400948	5 gal. (18.93 l.)	Liquid
13403562	V/O 5 gal. (18.93 l.)	Viscous Liquid
13400949	55 gal. (208.2 l.)	Liquid
13403563	V/O 55 gal. (208.2 l.)	Viscous Liquid

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### MCI®-2020

- Available in v/o version
- UL certified to meet NSF Std. 61 requirements
- Easily applied by spray, brush or roller
- Surface applied migrating corrosion inhibitor for existing concrete structures
- Confirmed effective in initial field evaluation
- No cure time required

Part #	Size	Type
13400168	5 gal. (18.93 l.)	Liquid
13402163	V/O 5 gal. (18.93 l.)	Viscous Liquid
13400169	55 gal. (208.2 l.)	Liquid
13402162	V/O 55 gal. (208.2 l.)	Viscous Liquid

### MCI®-2026 Floor Coating

- 100% solids, 2-component, novolac epoxy
- Excellent corrosion and abrasion resistance
- Meets all of the USDA guidelines for use in Federally inspected poultry & meat plants
- Available in clear, gray and a selection of colors
- Can be made anti-slip

Part #	Size	Type
13502284	2.5 gal. kit (125-150 ft <sup>2</sup> /gal) (9.46 l.) (38.1-45.72 m <sup>2</sup> /l)	2 component kit



MCI®-2038 and MCI®-2039 repair mortar not only offers corrosion protection to the repair area, but to adjacent areas as well.

### MCI®-2026 Primer

- Recommended primer for MCI®-2026 Floor Coating
- VOC compliant odorless and solvent free
- Moderate chemical resistance and good abrasion resistance
- Eliminates concrete dust
- Meets USDA guidelines for use in federally inspected poultry and meat plants

Part #	Size	Type
13502285	3 gal kit (250-350 ft <sup>2</sup> /gal) (11.36 l.) (76.2-106.7 m <sup>2</sup> /l)	2 component kit

### Cortec® MCI® Features

- Organic, safe & environmentally friendly
- Provides multimetal protection
- Does not contain any calcium nitrite
- Protects against corrosion even in dense concrete
- Does not affect the physical properties of the concrete mix (air entrainment, set time, strength or slump)

### General Applications

- All reinforced, precast, prestressed, post-tensioned or marine concrete structures
- Restoration and repair of all reinforced concrete structures.
- Parking decks, ramps and garages
- Concrete industrial floors, piers, piles, pillars, pipe and utility poles.
- Steel reinforced concrete bridges, highways, streets and building facades exposed to corrosive environments.

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**Cortec® Corporation's World Headquarters**  
Committed to nature's preservation

## TOTAL CORROSION CONTROL

Cortec® Corporation® is dedicated to controlling corrosion at ALL STAGES of a product life cycle. Cortec® has developed a diverse range of corrosion protection products including cleaners, metalworking fluids, water- and oil-

based coatings and corrosion inhibitors, rust removers, paint strippers, powders, packaging foams, paper, films, and surface treatments and admixtures for concrete. Contact Cortec® for additional brochures and information.

Visit our website for more information on Cortec® Vapor phase Corrosion Inhibitors  
**CortecVCI.com and CortecMCI.com**

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