



MILCORR®

ASSET PRESERVATION SYSTEMS FOR THE MILITARY



CORTEC
CORPORATION

Environmentally Safe VpCl™/MCl® Technologies

Many types of corrosion prevention measures have been adopted over the years by the military. Now, new strategies are continually being developed and evaluated for effective corrosion control. Loss due to corrosion has become a major priority for militaries.

Some Militaries choose to do Nothing!

War Readiness is a Key Factor now being taken into consideration, and Cortec has the solutions needed that fit easily into existing application systems that will reduce costs of protection with more efficient and economical solutions. Cortec can extend asset life and enhance war readiness.



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 is available to protect ferrous and non-ferrous metals, including formulations that protect combinations of metals to prevent galvanic corrosion.

Short- and long-term protection.

There's a Cortec® solution whether you need temporary protection during maintenance and operations, medium-term protection for shipment and storage or extended protection for lay-up, mothballing and field service for anything from weaponry to ground equipment to vehicles to avionics.

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 molecular layer deposited by Cortec® Vapor phase Corrosion Inhibitors (VpCIs) needs no removal. No degreasing, scraping, cleaning or further preparation is necessary before processing, installation or use. Your VpCI protected components, parts and finished assemblies are always ready for immediate use. Cortec® barrier coatings are easily removed with conventional cleaning methods.

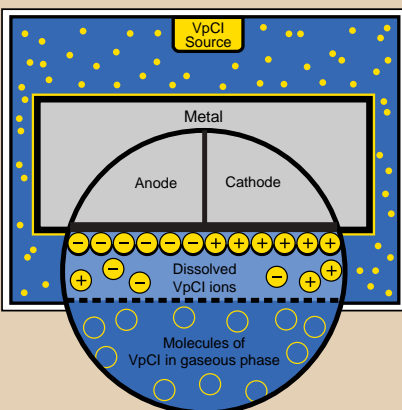
Does not alter most material properties.

In the majority of cases, the invisible protective ionic layer of Cortec® VpCIs does not alter important surface properties. This is true even for most 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, parts stored in a small box, large containerized shipments, to vehicles and equipment.

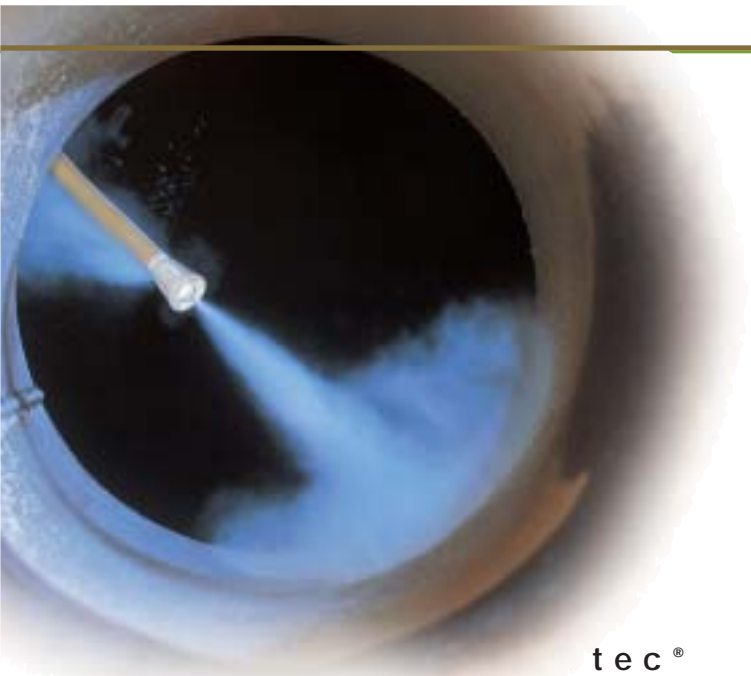
How Cortec VpCI's (Vapor phase Corrosion Inhibitors) Work



VpCIs:

- Vaporize.
- 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 which is adsorbed to the metal surface.

- Have a high bonding energy.
- Are individual or combinations of chemical compounds with varying vapor pressures.
- Protective layer re-heals and self-replenishes through further condensation of the vapor. VpCI combines with other functional properties:
 - Antistatic
 - Lubricating
 - Cleaning
 - Paint Removing
 - Desiccant
 - Polymeric
 - Coatings
 - Rust Removing
 - Fire Retarding
 - Surface Protection



More Efficient Delivery Systems.

- | | | |
|----------------------|-----------------------|------------|
| • Add | • Dip | • Inject |
| • Package | • Attach | • Disperse |
| • Insert | • Roll-on | • Migrate |
| • Wrap | • Brush | • Fog |
| • Clean | • Cushion | • ESD |
| • Automatic dispense | • Electrostatic spray | • Coat |

These new delivery systems offer practical, economical breakthroughs for the protection of metal parts and products. Cortec's® innovative use of VpCI/MCI® technology makes these treatment methods possible.

Cortec® VpCIs are uniquely formulated for many types of delivery systems. Whether liquid, powder, impregnated foam or plastic, VpCI formulation uses technology to its best advantage for effective and economical corrosion protection.

The creative use of VpCI technology offers improved protection even for conventional applications (brush, rubber blade, dip or spray).

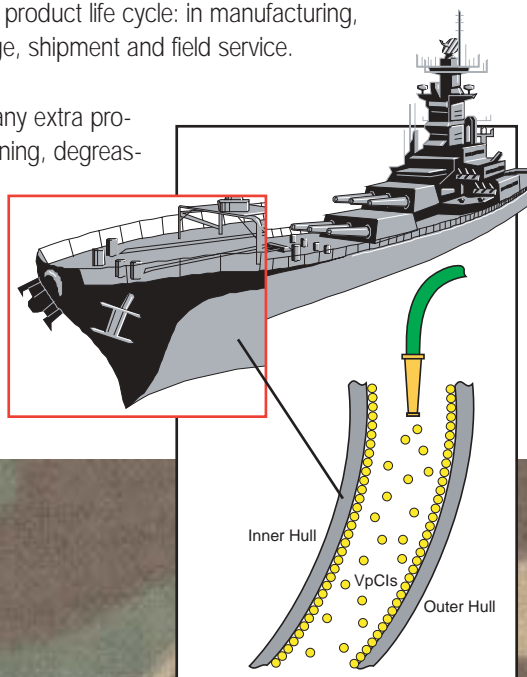
tec®

VpCIs Cut Costs.

- Multifunctional products.
- Environmentally friendly.
- More effective protection that check, decrease and prevent atmospheric corrosion.
- Efficient delivery systems that make it economical to treat hard-to-protect items.
- Easy application.
- Improved health and safety.
- Elimination of extra processing steps
- No need to remove VpCI protection, metals are ready for immediate use.
- Extension of equipment life.
- Economical.
- Immediate war readiness.

Use Cortec® systems in every stage of a product's life, starting from the production of metal stock to actual use in the field. When properly applied, Cortec® VpCIs substantially cut time and costs throughout the entire product life cycle: in manufacturing, temporary and deep storage, shipment and field service.

Cortec® VpCIs eliminate many extra processing steps such as cleaning, degreasing, rust removal, pickling, sandblasting and reprotecting. You have less rework, fewer rejects, improved quality, reduced rust claims and extended equipment life.



Multifunctional Products.

From packaged products stored indoors to products located outdoors in adverse conditions, new generation VpCI systems make it more profitable to solve a corrosion problem than to ignore it.

For example, you can:

1. Fog a void space in a few minutes and eliminate corrosion problems for long term protection.
2. Protect on-site, operational electrical circuitry for pennies a day.
3. Easily spray valve flanges and stems with an outdoor coating for extended protection.
4. Boost the protection of your lubricating oils and fluids with an additive effective for multimetal systems.

These four examples just begin to show how Cortec® VpCIs successfully solve the problem caused by impractical conventional corrosion treatments.

Packaging .

Cortec® offers a full line of standard and custom packaging products in conformance with various military, ASTM, DIN, JIS, BS and other international standards. Cortec® packaging products include papers, films, foams, cushioning bubbles and inserts. All of the packaging products provide multimetal corrosion protection, are non-toxic and recyclable.



Product Life Cycle With Cortec® VpCIs

Manufacturing .

During the manufacturing of your product, whether circuit boards or metal stampings, Cortec® products easily integrate into fabrication and assembly processes. While eliminating the corrosion of ferrous and non-ferrous metals, Cortec® products provide lubrication, enhancing production speeds and tool life to help produce and maintain first-quality asset preservation.

Cortec® corrosion inhibitors provide you with unique solutions to difficult corrosion problems. Use VpCI powders to protect difficult-to-reach voids. Water-based inhibitors replace oily coatings and coolants, and provide easy-to-remove intermediate protection. Water soluble additives in hydro test and hydro blasting solutions protect during and after use. VpCI emitters protect electronic and electrical assemblies during the various stages of fabrication, assembly, shipping and field operation.

Throughout the life of your tank, valve, compressor, circuit board, electrical box, printing press, or whatever your product may be, Cortec® protects your assets from beginning to end.

Papers: Cortec® VpCI papers provide corrosion protection in several different applications including single item packaging, multiple item wrapping for bulk shipments, weaponry, ammunitions, OEM and automotive parts packaging for storage and shipping, and sheet liners for product separation. These paper products are nitrite free.

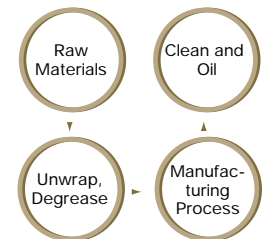
Films: Cortec® VpCI films provide protection in a variety of forms to suit your packaging needs. Films range from general use polyethylene to shrink wrap, stretchable and reinforced constructions. All films have excellent clarity.

The multifunctional VpCI-125 films and bags incorporate Vapor phase Corrosion Inhibitors, desiccant and antistatic construction.

VpCI-126 bags and films employ moisture absorbing action and are available in high performance constructions.

VpCI-129 is a barrier protection which maintains a vacuum and is excellent for high temperatures and humidity.

The MilCorr shrink film was especially developed for military use featuring high UV absorption and flame retardancy with Cortec's superior corrosion protection.



Product Life Cycle Without Cortec® VpCIs



Cargo Loader shrink wrapped in MilCorr Film

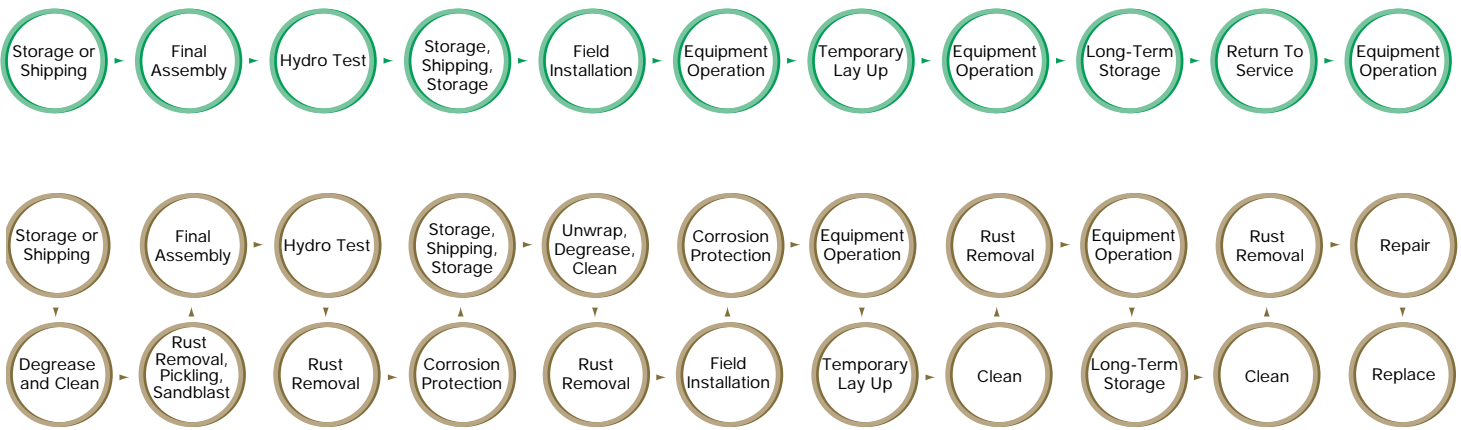
Foams: Cortec® impregnated foams and Cor-Pak™ bubbles protect precision machined parts and highly sensitive electronic components. They protect items from breakage and surface damage – like scratches. Cortec® EcoShield® protects delicate items with its abrasive-proof lining and absorbs condensation as well.

Inserts: Cortec® VpCI inserts provide exceptional absorption and even reach recessed areas. Inserts fit into virtually any packaging system and come in pouches, tablets, foam circles and squares.



Total Corrosion Control...

from raw materials to final user.

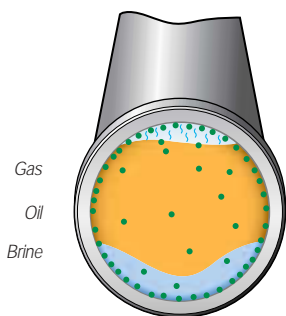


Self-Replenishing.

Unlike conventional corrosion inhibition methods, Cortec® VpCIs are self-replenishing. Add Cortec® VpCIs into any part of your system at single or multiple points. For example, inject VpCIs automatically into a system — without any operator attendance — and immediately start protecting hundreds of feet of piping in steam lines, liquid distribution systems or hundreds of kilometers of pipeline.

As a pro-environmental corrosion treatment of the 21st century, Cortec® VpCIs are free of chromates, other heavy metals, phosphates or chlorinated hydrocarbons. These new organic formulations give you an

environmentally acceptable way to protect equipment. From aggressive brine solutions in wells, to protecting miles of remote pipeline, Cortec® VpCIs extend the life of equipment and provide protection in the interface, liquid phase and vapor phase.



Pipeline section showing active VpCI protection in the interface, liquid phase and vapor phase.

Short and Long Term Preservation.

When using Cortec solutions you can rely on the same corrosion protection to lengthen the service life of your product. Cortec® VpCI systems protect electrical and electronic equipment during operation and shutdown. Cortec® water- or oil-based barrier coatings protect installed valves and pumps from atmospheric corrosion. Cortec® additives protect lubricant systems from corrosive environments and contaminants.

In cases where equipment or systems require lay-up for temporary shutdown or long-term mothballing, Cortec® products offer many benefits. You can apply them easily, quickly, and usually without surface preparation to your piping, tubes, tanks, motors, generators, etc... External as well as internal working surfaces and mechanical parts are effectively protected. You select the degree of protection needed based on the severity of the environment and the length of exposure. Your protected equipment will always be ready for use.

Costs may be decreased 40-60% according to well documented data for deep storage and preservation of military vehicles and equipment. As well, since removal or draining of VpCIs is not necessary immediate war readiness can now be realized. Savings of millions of dollars in hazardous waste generation is also a part of this actual real life data.

Metal Treatments and Surface Preparation.

Metal Treatments and Surface Preparation Cortec® Metal Treatments come in liquid and gel form for dip, spray and brush-on applications. Cortec® pro-environmental products for metal treatments also include biodegradable cleaners and non-polluting paint stripper.

Often, before rust can be removed from a part, any soil or paint must be removed first. A quick visual inspection usually determines if a part needs preparatory work. Other times, especially with heavily rusted and encrusted parts, you must remove rust before you find a "layer" of soil or paint also requiring removal.

Cortec® Rust Removers are based on organic chemicals that remove oxide and tarnish from iron, copper, brass and aluminum. These formulations replace harsh acids. When used as recommended, the rust removers are non-polluting as well as mild to human skin, most paints, plastics, woods, textiles, ceramics and rubber.

Made from water-based, natural ingredients whenever practical, most Cortec® cleaners and degreasers are biodegradable, non-toxic and non-flammable. They are specially formulated for safety and multi-purpose, multimetal use. They also include corrosion inhibitors to prevent flash rust of freshly cleaned surfaces.

Cortec® paint stripper was also developed with consumer safety in mind. It is free of methylene chloride, chlorinated solvents, methanol, toluene or acetone, yet removes paint in three to 30 minutes.



Maintenance and Operations.

With the use of VpCIs the extension of life cycles for vehicles, equipment, or operating systems be it land, air, or sea is done with the same basic procedures used in everyday maintenance instruction procedures. There is no need to purchase additional application or removal equipment. Special facilities are not necessary as well!

Elimination of the need for application and storage facilities give the use of Cortec VpCI product an extra advantage over other conventional or exotic maintenance and preservation programs. Again, Cortec can save millions.



Remove oil, grease and soils

Remove old paint

Remove rust

Apply Cortec® rust protection

New Delivery Systems.

The Cortec Corwipe 500 is a revolutionary multipurpose wipe that cleans and leaves behind corrosion inhibitor protection. This wipe is environmentally safe, and can be used without gloves. Corwipe eliminates the need for separate bottles of cleaners and has a fresh lemon scent. Antistatic properties are excellent for use on sensitive electronics.



High Performance Coatings.

All Cortec® coatings deliver exceptional protection, even in extreme outdoor industrial, naval, marine and tropical environments.



Cortec's® complex formulas of non-toxic, organic inhibitors offer protection far exceeding most paints, primers and solvent-based products. Many of these unique, water-based coatings pose no threat to personnel or the environment. They also offer outstanding permanent or temporary protection even in harsh, unsheltered applications.



In many situations, one application of a Cortec® coating serves as both a primer and top coat for needs ranging from temporary shipping protection to years of demanding outdoor industrial or marine use. Little or no surface preparation is required in many cases.



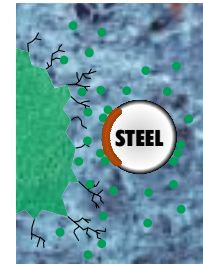
When a Cortec® primer coating is used, you may apply most topcoats with no loss of VpCI or barrier protective capability. Coatings are available in stock and custom colors, plus UV protection.



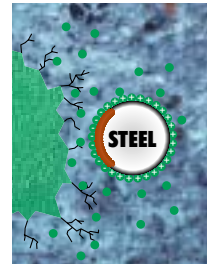
For immersion service, epoxy formulations containing VpCI additives are available for applications such as ballast tanks, pumps, pipelines and structural steel.



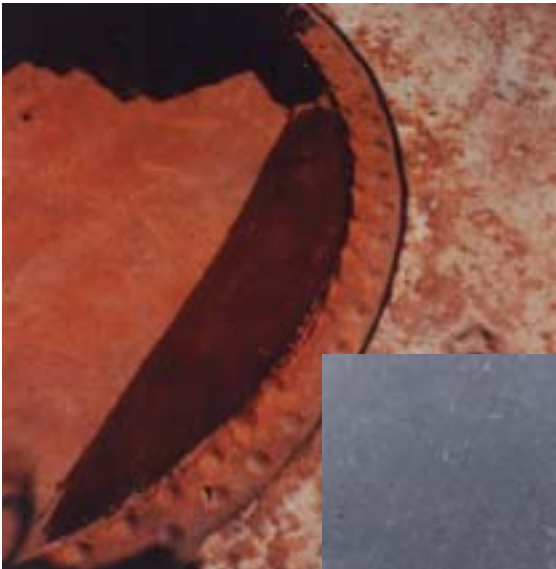
Remove spalled concrete from deteriorating structure.



MCI® migrates through concrete without direct application to steel.



MCI® protects steel from further corrosion.



Concrete Structures.

Migrating Corrosion Inhibitors™ (MCIs®), a technology developed by Cortec® researchers, rehabilitate concrete structures which deteriorate due to corrosion of the reinforcing steel. MCI® is added to the concrete mixture during construction of new structures and during the rehabilitation process of old structures. The concrete containing MCI® compound is applied in the normal fashion. The MCI® inhibitor migrates through the old concrete and seeks any ferrous metal in the structure. It attaches to the reinforcing bars and steel mesh, forming a thin protective layer of MCIs®. To prevent future corrosion, the MCI® layer prohibits chemical reaction between chlorides and steel in the structure. MCI® inhibitors are effective in fighting high chloride levels from deicing salts applied to highways and bridges, airborne salts that attack marine structures and other structures near the ocean, and deterioration by acid rain and carbonation. MCI® technology can also protect structures such as tanks and pipes with thermal insulation.

Cortec Biodegradable and Environmentally Friendly Packaging and Corrosion Solutions



Biodegradable Films

Eco-Corr® & EcoFilm™

Cortec's technological breakthrough of fully biodegradable films was designed to aid businesses and governments in complying with stringent environmental guidelines. Cortec® Eco-Corr® and EcoFilm™ were designed to easily biodegrade in outdoor, landfill and compost conditions. Eco-Corr® and EcoFilm™ are superior to traditional packaging films in many ways. Tests have proven that they are twice as strong as conventional LDPE films. Eco-Corr®, with Cortec's patented VpCI (Vapor phase Corrosion Inhibitor) protection, is ideal for packaging applications where metal corrosion protection is crucial. Eco-Corr® and EcoFilm™ are environmentally safe packaging film solutions.



EcoAir®

EcoAir® Air-Powered Aerosol products are a major step forward in aerosol technology. For the first time in any industry, we can offer aerosol products that are powered by compressed air rather than traditional chemical propellant. This innovative technology provides products in a four-layer Mylar EcoPouch™ inside the can. As the valve is depressed, the surrounding pressure expels the bag's contents. EcoAir® products have been specially formulated to improve safety for the consumer as well as the environment. These safety improvements are reflected in the HMIS ratings for each product. The major advantages of EcoAir® technology are:

- Nonflammable
- Spray in any direction, even upside down
- No product contamination by propellant
- Safer to ship and store, with very low or no environmental impact, no CFC's, 1,1,1 trichloroethane or other chlorinated solvents.
- Unique water-based products for tough maintenance applications.



All leading aerosol sprays are flammable.



Delivers a non-flammable, water-based spray.



EcoLine™

EcoLine™ products are based on a renewable resource soybean derivative, soybean methyl esters. Methyl ester building blocks have been used in this revolutionary, environmentally low-impact technology. These soya-based products provide excellent lubricity, cleaning action, corrosion protection - and are completely biodegradable. EcoLine™ products are better for the environment and leave behind a high performance VpCI corrosion-protecting layer. EcoLine™ heavy duty maintenance products include: no residue cleaner and degreaser, lubricant and penetrant, heavy duty corrosion inhibitor/lubricant, and cutting fluid containing VpCI.

EcoSpray® & EcoClean®

EcoSpray® and EcoClean® products attack the toughest maintenance duties while respecting the environment. They incorporate low toxicity chemicals without aerosols, propellant, or ozone-depleting CFCs. Fast-acting, dependable, and safe to handle, EcoSpray® and EcoClean® lead the way in environmentally safe technology.

Metal Protection Guide

Metals

Cor-Pak® Bubbles	2	2	2	2	2	2	2	2
Cor-Pak® Cold Seal	2	2	2	2	2	2	2	2
Cor-Pak® Corrugated	2	2	2	2	2	2	2	2
Cor-Pak® Film	2	2	2	2	2	2	2	2
Cor-Pak® 1-MUL	1	1	1	1	1	1	1	1
Cor-Pak® Pipe Strip	1	1	1	1	1	1	1	1
Cor-Pak® Stat. Dis. Bubbles	2	2	2	2	2	2	2	2
Cor-Pak® Stretch Film	2	2	2	2	2	2	2	2
Cor-Pak® Tablets	1	1	1	1	1	1	1	1
CorShield®	4	4	4	4	4	4	4	4
Eco-Corr®	2	2	2	2	2	2	2	2
EcoShield™	3	3	3	3	3	3	3	3
EcoWeave®	2	2	2	2	2	2	2	2
MilCorr™	4	4	4	4	4	4	4	4
M529	2	2	2	2	2	2	2	2
Corrosorber™	1	1	1	1	1	1	1	1
Corwipe® 500	2	2	2	2	2	2	2	2
VpCI-101	1	1	1	1	1	1	1	1
VpCI-105/111	1	1	1	1	1	1	1	1
VpCI-125	2	2	2	2	2	2	2	2
VpCI-126	2	2	2	2	2	2	2	2
VpCI-129	2	2	2	2	2	2	2	2
VpCI-130 series	1	1	1	1	1	1	1	1
VpCI-146	2	2	2	2	2	2	2	2
VpCI-150 & 170	1	1	1	1	1	1	1	1
Electricorr® VpCI-238	2	2	2	2	2	2	2	2
Electricorr® VpCI-239	3	3	3	3	3	3	3	3
Electricorr® VpCI-286	2	2	2	2	2	2	2	2
VpCI-307	1	1	1	1	1	1	1	1
VpCI-309	1	1	1	1	1			
VpCI-316	2	2	2	2	2	2	2	2
VpCI-322	3	3	3	3	3	3	3	3
VpCI-323	3	3	3	3	3	3	3	3
VpCI-324	3	3	3	3	3	3	3	3
VpCI-325	3	3	3	3	3	3	3	3
VpCI-326	3	3	3	3	3	3	3	3
VpCI-327	3	3	3	3	3	3	3	3
VpCI-329	3	3	3	3	3	3	3	3
VpCI-337	2	2	2	2	2	2	2	2
VpCI-338	2	2	2	2	2	2	2	2
VpCI-344	2	2	2	2	2	2	2	2
VpCI-345	2	2	2	2	2	2	2	
VpCI-347	2	2	2	2	2	2	2	2
VpCI-365	5	5	5	5	5	5	5	5
VpCI-368	4	4	4	4	4	4	4	4
VpCI-369	4	4	4	4	4	4	4	4

Metal Protection Guide

Metals

VpCI-372	3	3	3	3	3	3	3	3
VpCI-373	3	3	3	3	3	3	3	3
VpCI-374	4	4	4	4	4	4	4	4
VpCI-375	4	4	4	4	4	4	4	4
VpCI-376	3	3	3	3	3	3	3	3
VpCI-377	2	2	2	2	2	2	2	2
VpCI-378	2	2	2	2	2	2	2	2
VpCI-379	2	2	2	2	2	2	2	2
VpCI-383	4	4	4	4	4	4	4	4
VpCI-386/387	4	4	4	4	4	4	4	4
VpCI-388	4	4	4	4	4	4	4	4
VpCI-389	4	4	4	4	4	4	4	4
VpCI-392	4	4	4	4	4	4	4	4
VpCI-393	5	5	5	5	5			
VpCI-395	4	4	4	4	4			
VpCI-396	4	4	4	4	4			
VpCI-398	3	3	3	3	3	3	3	3
VpCI-399	3	3	3	3	3	3	3	3
VpCI-411	2	2	2	2	2	2	2	2
VpCI-414	2	2	2	2	2	2	2	2
VpCI-415	2	2	2	2	2	2	2	2
VpCI-416	2	2	2	2	2	2	2	2
VpCI-417	2	2	2	2	2	2	2	2
VpCI-418	2	2	2	2	2	2	2	2
VpCI-419	2	2	2	2	2	2	2	2
VpCI-422/423	3	3	3		3	3	3	2
VpCI-425	3	3	3		3	3	3	3
VpCI-426	3	3	3	3	3	3	3	3
VpCI-427/428				3	3			3
VpCI-432/433	4	4	4	4	4	4	4	3
VpCI-605	5	5	5	5	5	5	5	5
VpCI-609/611	5	5	5	5	5			
VpCI-615	1	1	1			1	1	
VpCI-617	1	1	1			1	1	
VpCI-619/658	3	3	3	3	3		3	
VpCI-629	5	5	5	5	5	5	5	5
VpCI-637	5	5	5	5	5	5	5	5
VpCI-639	5	5	5	5	5	5	5	5
VpCI-641	5	5	5	5	5	5	5	5
VpCI-644	5	5	5	5	5	5	5	5
VpCI-645	5	5	5	5	5	5	5	5
VpCI-646	5	5	5	5	5	5	5	5
VpCI-647	5	5	5	5	5	5	5	5
VpCI-649	5	5	5	5	5	5	5	5
VpCI-658	3	3	3	3	3	3	3	3
VpCI-705	5	5	5	5	5	5	5	5
VpCI-812/819	3	3	3	3	3	3	3	3
VpCI-1238	2	2	2	2	2	2	2	2

Exposure Limitations

1. Enclosed. For use in non-ventilated equipment housings, control boxes, or other enclosures. Packaged in cardboard, paper, plastic wrap or metal containers.
2. Inside. In addition to the condition described above, for use in uncovered/inside storage.
3. Outside sheltered. In addition to the two conditions described above, for use in sheltered/outside storage.
4. Outside. In addition to the three conditions described above, for use in uncovered/outside storage.
5. Immersion. In addition to the four conditions described above, also for immersion service in corrosive liquids such as salt water, crude oil, etc.

KEY

- Recommended
- Consult Cortec® For Specific Usage
- Not Recommended or Test Data Not Available

Product Descriptions

VpCI-101 Impregnated Foam Device, Patented

Unique dual action: desiccant/VpCI protection.

VpCI impregnated foam for multimetal protection. Comes with adhesive backing and individually packaged in plastic. Each device is 1.25" (32 mm) wide, 3" (76 mm) long, and 0.25" (6 mm) thick. Use one device per 1.0 cu. ft. (28 l) of enclosed space. Nitrite free, non-toxic, non-polluting. NSN 6850-01-338-1392

Package: 50 per carton.

VpCI-105/111 Plastic Emitter, Patented

Unique dual action: desiccant/VpCI protection.

Tyvek® breathable membrane, plastic cartridge filled with nitrite free VpCI, for multimetal protection. Comes with adhesive backing and is individually packaged in plastic. The VpCI-105 emitters are compact to fit modern electronic enclosures [2.3" (58 mm) in diameter and .75" (19 mm) high]. Use one emitter for 5 cu. ft. (142 l) of enclosed space. VpCI-111 [2.3" (58 mm) in diameter and 1.27" (32 mm) high]. Protects 11 cu. ft. (311 l). VpCI-105 NSN 6850-01-406-2060 VpCI-111 NSN 6850-01-408-9025

Package: 20 per carton VpCI-105, and 10 per carton VpCI-111.

VpCI-125 Static Dissipative Film, Patented

Unique multifunctional film: VpCI/desiccant action and ESD protection.

Transparent, multimetal protection, heat sealable. Protect against triboelectric charge generation and corrosion. Recyclable. Conforms to MIL-PRF-81705D and MIL-PRF-22019/22020.

Package: Standard and custom sizes.

VpCI-125 Clean Film

Unique multifunctional film: VpCI/desiccant action and ESD protection.

VpCI 125 film that has been cleaned to NASA JSCM 5322 Level 100. Used for highly sensitive electronic and aerospace parts protection.

Package: Custom sizes.

VpCI-126 Multimetal LDPE Heat Sealable Film, Patented

Unique dual action: desiccant/VpCI protection.

Transparent plastic films with VpCI for multimetal protection. Heat sealable. Also available in Zip-Lock® bags, and Shrink film varieties. Conforms to MIL-PRF-22019D and MIL-B-22020D. FDA approved and recyclable.

Package: Standard and custom size bags, tubing and sheeting.

VpCI-129 HDPE Film

High-density polyethylene (HDPE) film extruded with Vapor phase Corrosion Inhibitors (VpCIs). Has high barrier properties and MVTR. Maintains a vacuum for extended periods of time. Exceptional seal strength can be attained.

Package: Custom sizes up to 60" wide (152 cm).

VpCI-130 Series Impregnated Foam Shapes, Patented

Multifunctional action: desiccant/VpCI protection/ static dissipative.

VpCI-131, 132, 133, 134, 137 are impregnated foams for ferrous and non-ferrous protection. Available in a variety of sizes. Nitrite free, non-toxic. Meets MIL-PRF-81705D for ESD properties, and MIL-I-22110B for vapor corrosion inhibiting. VpCI-133 NSN 6950-01-426-3539.

Package: Standard and custom sizes available.

VpCI-144 EcoShield Paper

Multimetal VpCI barrier coated paper. Excellent moisture barrier. Replaces polyethylene coated papers, recyclable, repulpable, non-toxic and biodegradable. Meets MIL-PRF-3420G.

Package: Standard and custom size roll stock and sheeting.

VpCI-146 Multimetal Inhibitor Paper, Patented

VpCI kraft paper protects ferrous and non-ferrous metals. Nitrite and chromate free. Fully recyclable. Conforms to MIL-PRF-3420G.

Package: Standard and custom size roll stock and sheeting.

VpCI-148 Grease Resistant Paper

VpCI paper designed for packaging of parts covered with grease or oil. Meets MIL-PRF-3420G.

Package: Available in standard and custom size roll stock and sheeting.

VpCI-150 & 170 Impregnated Foam Tapes, Patented

Unique dual action: desiccant/VpCI protection.

Flexible, protective tapes impregnated with VpCI for multimetal protection. Comes with adhesive backing. Easily cut to length to protect various size enclosures. Nitrite free VpCI material. NSN 8030-01-208-1769 NATO 8030-00-244-1299

Package: 6 rolls per carton VpCI-150, and 1 roll per carton VpCI-170.

ElectriCorr® VpCI-238/239

Multifunctional formulation providing three-way protection: multimetal corrosion protection, antistatic and cleaning action. Corrosion inhibiting spray provides dry, ultrathin, protective film. For use in enclosed environments on electronic equipment and components. Will not alter electrical resistance, magnetic or thermal properties. NSN 6850-01-413-9361. VpCI-239 is the outdoor version of VpCI-238.

Package: 12 oz. (340 gram) aerosol or EcoSpray® 238 pump spray, 16 oz. (0.47 liter), 5 gallon (19 liter) pails and 55 gallon (208 liter) drums.

ElectriCorr® VpCI-286

Nonconductive acrylic conformal coating that combines excellent moisture and corrosion resistance with Cortec's patented vapor corrosion inhibitor technology.

Package: 11 oz. aerosol cans (312 gram), 5 gallon (19 liters) pails, 55 gallon (208 liters) drums, totes and bulk.

VpCI-307/309 Powders

Vapor corrosion inhibiting powders for ferrous and many non-ferrous metals. Apply by dust, sprinkle or fog. Nitrite and chromate free. VpCI-307 meets MIL-I-22110C.

Package: 5 lbs. (2.27 kg), 50 lbs. (22.7 kg), 100 lbs. (45.4 kg).

VpCI-316 Liquid Concentrate

Synthetic, water-based inhibitor formulated for the protection of yellow metals. Provides lubrication and cooling properties during operation and dries to a transparent film.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

VpCI-322 Oil-Based Concentrate

Oil-based concentrate for use as an additive to various lubricating systems that is suitable for both operating and lay-up applications. May also be fogged into internal cavities for corrosion protection.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

VpCI-323 Oil-Based Concentrate

Oil-based concentrate for use as an additive in engine systems, and is suitable for both operating and lay-up applications. Provides corrosion protection both in contact and in the vapor phase. Also available in a higher flashpoint version (VpCI-323M).

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

VpCI-324 Lubricating Oil

USDA approved lubricating oil for use on machine parts that may be in contact with food. Formulated with biocides to help minimize bacterial growth.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk. Also available in EcoAir®; 10 oz. (283 gram) cans.

VpCI-325 Lubricant/Corrosion Inhibitor

Ready-to-use thin film oil based liquid for multi-metal corrosion protection. Provides excellent protection to finely machined surfaces such as gun barrels, honed or mirror-like finishes.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

VpCI-326 Oil-Based Concentrate

Oil-based concentrate for use as an additive to hydraulic systems. Contains corrosion inhibitors for protection of both ferrous and non-ferrous metals. Suitable for both operating and lay-up applications and will pass through a 1-micron filter. Meets MIL-46002 and MIL-I-85062 (AS).

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

VpCI-327 Solvent-based Concentrate

Ready-to-use, solvent-based rust preventative for indoor corrosion protection. Formulated for the removal of finger prints and other stains from metal surfaces. Meets MIL-C-15074.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

VpCI-329 Oil-Based Concentrate

Oil-based concentrate for use in gearboxes, crankcases and other lubrication systems. Provides excellent corrosion protection in both the liquid, and vapor phases. Also available in super concentrate (VpCI-329SC), ready-to-use (VpCI-329D), and FDA approved (VpCI-329F) versions. Meets MIL-46002 and MIL-I-85062 (AS) NATO 6850-66132-6100.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

VpCI-337 Liquid Concentrate

Water-based concentrate that is excellent for fogging of internal spaces of pipes, tanks, and containers. Also provides excellent protection when used as an edge spray for shipping and storage applications. Contains vapor phase corrosion inhibitors for multi-metal protection.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk. Also available in EcoAir®; 13 oz. (369 gram) fogger can.

VpCI-338 Liquid Corrosion Inhibitor

Water-borne corrosion inhibitor that is excellent for edge-treating of coils and sheet metal stacks and for fogging of internal enclosures. Particularly effective on ferrous metals, aluminum, and tin-plate. FDA approved for indirect contact with food. Also available as a super concentrate (VpCI-338SC).

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

VpCI-344 Water-Borne Coolant/Lubricant











Water-borne corrosion preventative coolant for use in wet tempering of galvanized or cold-rolled steel. Also can be used in light machining operations where some lubrication is required.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

VpCI-345 Coolant/Lubricant

Semi-synthetic coolant/lubricant for heavy duty machining operations such as cutting, grinding, and stamping. Provides excellent multi-metal corrosion to both equipment and machined parts.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

COLOR KEY:	 VpCI Electronic Products	 VpCI Metalworking Products	 VpCI Packaging Products	 Surface Preparation Product
	 Water/Oil Additives	 VpCI High Performance Coatings	 VpCI Water Treatment Products	 Concrete/Construction Products
	 Generic Chemicals	 VpCI ECO Products	 VpCI Enhanced Lubricants	

VpCI-347 Heavy Duty Lubricant

Soluble-oil based lubricant for use in heavy duty machining operations. Excellent for use in drawing, broaching, turning, cutting and stamping operations. Effective in dilutions as low as 1:40 in water. NATO 6850-66-132-6101 and NATO 6850-66-132-6102.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

VpCI-365 Cor-Mastic™

Formulated as a replacement for typical mastic epoxies, VpCI-365 incorporates Vapor phase Corrosion Inhibitors for the ultimate corrosion protection. Excellent for immersion applications.

Package: 7.5 gallon (28.5 liter) kits (1 per carton).

VpCI-367 Liquid for Outdoor Protection

Solvent-based, non-tacky, temporary coating that provides outdoor, multi-metal protection. Excellent for use at elevated temperatures, and the coating will not run. Apply by spraying, dipping, brushing, or rolling.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

VpCI-368 Liquid for Outdoor Protection

Solvent-based, temporary coating that provides extended outdoor, multimetal protection. Leaves a translucent, waxy finish that is scratch resistant and self-healing. Can be removed with common solvents. Meets MIL-C-16173D Grade 3 (QPL product), NATO 6850-66-132-5848, NATO 6850-66-132-6099

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk. Also available in aerosol form CorShield® 368 12 oz. (0.35 L) cans.

VpCI-369 Liquid Concentrate

Oil-based barrier coating that provides extended, outdoor, multi-metal protection. Leaves a translucent, oily film that is scratch resistant and self-healing. Product can be diluted with oil. Apply by spraying, dipping, brushing or rolling. Can be easily removed with common solvents. Meets MIL-C-16173D Grade 2 (QPL product), NSN 8030-00-244-1297

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk. Also available in aerosol form CorShield® 369 12 oz. (0.35 L) cans.

VpCI-372 Strippable Coating

Water-based liquid applied coating that dries to a tack free, rubbery surface. Provides protection from both atmospheric corrosion and surface damage during storage and shipping. To remove, simply peel from the surface.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums and liquid totes.

VpCI-373 Wash Primer

Water-based, fast drying surface treatment product designed as a replacement for phosphate, and chromate treatments. Conforms to MIL-P-15328D when used as a bonding primer.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums and liquid totes.

VpCI-374 Water-Based Acrylic Primer

Water-based, acrylic primer that provides extremely good corrosion protection in nearly all environments. Based on a hydrophobic latex that has extremely good salt resistance. Can be topcoated with both water-based and solvent-based finish coats.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums and liquid totes.

VpCI-377 Water-Based Rust Preventative

Water-soluble, biodegradable, rust preventative concentrate designed as a direct replacement for oil-based rust preventatives. Leaves a transparent, dry film and can be used at low concentrations.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk, and EcoAir® VpCI-377 13 oz. (369 gram) cans.

VpCI-378 Water-Reducible Rust Preventative

Water-emulsifiable replacement for oil-based rust preventatives. Forms a stable emulsion in water and can provide long-term protection for indoor and sheltered outdoor applications.

VpCI-378 also works very well as a quenching fluid.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

VpCI-379 Water-Based Rust Preventative

Water-based corrosion preventative concentrate designed to be used as a replacement for oil-based chemistries. Provides multi-metal protection for long-term indoor storage/shipping applications.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

VpCI-383 Thin Film Coating

Water-based, acrylic clear coat that provides multi-metal corrosion protection. Can be used as a direct-to-metal primer or as a finish coat. Provides a medium-high gloss finish that is UV stable.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums and liquid totes.

VpCI-385 Non-Skid Coating

Non-skid, water-based coating for application to a variety of critical surfaces. Environmentally friendly, long lasting coating that is UV stable and can be used on metal, plastic and concrete.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

VpCI-386 FR (Fire Retardant) Top Coat

A coating which passes ASTM D-3806-79 fire retardant test and provides corrosion protection.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

VpCI-386 Water-Based Acrylic Coating

Water-based, acrylic coating that provides extended protection for both indoor and outdoor protection. Can be used as a direct-to-metal coating or as a finish coat. Available in standard and custom colors and as a clear coat.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums and liquid totes.

VpCI-386 Aluminum

Water-based primer/topcoat, that provides protection from UV and abrasion for metals in harsh outdoor, unsheltered applications. Exceptional resistance based on a combination of organic-based inhibitors and an aluminum pigment.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) kit, liquid totes and bulk.

VpCI-387 High-Build Coating

A high-build, water-based coating that provides extended outdoor protection for any metal surface. Provides excellent resistance to high heat, humidity and salt air. Available in standard and custom colors.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums.

VpCI-388 Water-Based Temporary Coating

Water-based, temporary coating for both indoor, and outdoor corrosion protection. Leaves a film that is clear and dry. Can be easily removed, and is low in VOC's. Custom colors available.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums and liquid totes.

VpCI-389 Water-Reducible Temporary Coating

Water-borne temporary coating for outdoor storage protection. Leaves a translucent, waxy coating that is easily removable. Low in VOC's and dilutable with water.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

VpCI-390 Water-Based Temporary Coating

Water-based temporary coating for outdoor protection. Leaves a translucent, dry coating that can be removed with D-limonene cleaners or other solvents. Similar in corrosion protection to VpCI-389. Custom colors available.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums and liquid totes.

VpCI-392 Sound Deadening Coating

Soft, flexible, water-based coating that provides extended outdoor protection. Incorporates microspheres that act as a sound deadening barrier. Custom colors available.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

VpCI-393 Thin Film Epoxy

A thin film, two-component epoxy for use on bare and lightly rusted steel. Can be used in critical areas such as over rivets, weld seams and crevices. Slow curing, zero VOC clear coating that penetrates, seals and prevents further corrosion.

Package: 4 gallon (15.2 liter) kits.

VpCI-395 Water-Reducible Epoxy Primer

Water-reducible, epoxy primer that provides superior corrosion protection in most environments. Can be applied by spraying, brushing or rolling.

Package: 5 gallon (19 liter) kits.

VpCI-396 Moisture-Cured Urethane Primer

Aluminum filled, moisture-cured urethane primer meant for application to structural steel. Provides a hard, flexible primer that can be topcoated with most conventional urethane coatings.

Package: 1 gallon (3.8 liter), 5 gallon (19 liter) pails.

VpCI-396 Conductive

High solids moisture cure urethane containing conductive pigment. Provides consistent conductivity and excellent anticorrosion protection.

Package: 5 gallon (19 liter) pails.

VpCI-398 Epoxy Powder Coating Primer

Epoxy primer that is environmentally friendly. Combines the typical advantages of powder coatings, with VpCI corrosion protection. Designed as a primer for VpCI-399.

Package: 44 lb. (20 kg) containers.

VpCI-399 Epoxy-Polyester Hybrid Powder

Epoxy-polyester hybrid powder coating that is environmentally friendly. Leaves a hard, flexible finish that is UV stable. Available in standard and custom colors.

Package: 44 lb. (20 kg) containers.

VpCI CorrVerter™

Water-based corrosion converting primer that is meant for application to rusted surfaces. Contains a chemical chelating agent that converts the rust to a paintable surface.

Package: 16 oz. (0.45l) jars, 5 gallon (19 liter) pails, 55 gallon (208 liter) drums.

VpCI-408

Foam-free, neutral pH cleaner-degreaser for removing light-medium oil deposits. Meant for use in high pressure parts washers and provides short-term corrosion protection after cleaning.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

VpCI-411/411 Gel

Heavy-duty, water-reducible, D-limonene cleaner/degreaser designed for extra tough cleaning jobs in industrial and commercial applications. Available in a gel form for hard-to-reach surfaces. Both provide flash corrosion protection.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

COLOR KEY:	 VpCI Electronic Products	 VpCI Metalworking Products	 VpCI Packaging Products	 Surface Preparation Product
	 Water/Oil Additives	 VpCI High Performance Coatings	 VpCI Water Treatment Products	 Concrete/Construction Products
	 Generic Chemicals	 VpCI ECO Products	 VpCI Enhanced Lubricants	

VpCI-414 Cleaner/Degreaser

Viscous liquid concentrate designed to remove temporary coatings from bare metal and painted surfaces. Can also be used to remove waxes, dirt, oil, greases and difficult to remove contaminants. Provides short-term, multi-metal protection after application.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes, bulk and EcoAir® VpCI-414 13 oz. (369 gram) cans.

VpCI-415 Cleaner/Degreaser

Heavy-duty, biodegradable alkaline cleaner/degreaser for use in aircraft applications. Excellent for removing oils, greases, dirt and carbon build-up. Provides multi-metal corrosion protection after cleaning. Meets MIL-PRF-87937C.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

VpCI-416 Cleaner/Corrosion Inhibitor

Heavy-duty, alkaline cleaner and degreaser that can be used in industrial applications. Effective in neutralizing metal surfaces after acid cleaning or pickling operations. Also can provide corrosion protection for up to 6 months during indoor storage.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

VpCI-417 Cleaner and Degreaser (Powder), patented

Heavy-duty cleaner and degreaser developed for cleaning industrial equipment. Works very well in both power washers and ultrasonic equipment. Low foaming formulation that is phosphate free. Provides short-term, multi-metal corrosion protection after cleaning.

Package: 50 lb (23 kg) boxes and 100 lb (45.4 kg) drums. Safe-T-Charges 5 lb (2.3 kg) water soluble bags.

VpCI-418/418L, patented

Heavy-duty alkaline cleaner and degreaser for use in industrial cleaning equipment. Non-foaming cleaner that provides multi-metal corrosion protection after the cleaning process.

Package: (VpCI-418): 50 lb (23 kg) boxes, and 100 lb (45.4 kg) drums. (VpCI-418L): 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk. Safe-T-Charges 5 lb (2.3 kg) water soluble bags.

VpCI-419 Cleaner/Degreaser Concentrate

Heavy-duty cleaner and degreaser concentrate developed for cleaning industrial, oilfield, refinery and marine equipment. Provides temporary corrosion protection to ferrous metals.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

VpCI-422 Organic Rust Remover

Environmentally friendly, biodegradable rust and tarnish remover for ferrous and non-ferrous metals. Incorporates VpCI technology so that it is not aggressive to the metal substrate. Will not harm human skin, most paints, plastics, rubber, or other materials.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

VpCI-423 Organic Rust Remover Gel

Gel version of VpCI-422 that is excellent for application to vertical surfaces and hard to reach areas.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes, and bulk. Also available in EcoClean® 423, 16 oz. (0.47 liter) pump spray bottle and EcoAir® VpCI 423 16 oz. (397 gram) cans.

VpCI-425 Neutral Rust Remover Powder

Environmentally friendly, biodegradable organic rust remover powder. Effective in low dosages for removal of rust, oxidation, and scale.

Package: 5 lb (2.3 kg) boxes, 50 lb (23 kg) boxes and 100 lb (45.4 kg) drums.

VpCI-426 Rust Remover

Heavy-duty, liquid concentrate to remove rust, scale, and oxidation from virtually any metal surface. Especially effective in removing oxidation from aluminum, carbon steel, stainless steel, and copper. Incorporates VpCI technology.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

VpCI-426 Gel Rust Remover

Gel version of VpCI-426 that is excellent for application to vertical surfaces and hard to reach areas.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

VpCI-426 Powder Rust Remover, patented

Non-hazardous, water-soluble powder, that is used in low dosages for removal of rust, scale, oxidation and tarnish. Has a working pH of between 3-4, and is especially effective for cleaning stainless steel. Works very well in ultrasonic applications.

Package: 50 lb (23 kg) boxes and 100 pound (45 kg) drums. Safe-T-Charges 5 lb (2.3 kg) water soluble bags.

VpCI-427/428 Aluminum Cleaner

Water-based, liquid concentrate that dissolves oxides/scale from aluminum. VpCI-428 is a thixotropic, gel version that will cling to vertical surfaces.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

VpCI-432/433 Paint Remover

Heavy-duty liquid or gel paint stripping formulation designed to remove paints and coatings. Particularly effective for removal of alkyds, acrylics and urethane. Can be used on metal, concrete, and wood surfaces. VpCI-433 is a gel version of VpCI-432.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes, and bulk.

VpCI-605 De-icing Salt Additive

A non-toxic, environmentally friendly corrosion inhibitor designed specifically as a de-icing salt additive to prevent corrosion due to chlorides.

Package: 5 lb. (2.3 kg), 50 lb. (23 kg) and 100 lb. (45 kg) lined drums.

VpCI-609 Powder for Ferrous Metals

Powder for wet or dry lay-up of ferrous metals or aluminum.

Package: 5 pound (2.3 kg), 50 pound (23 kg) and 100 pound (45 kg) moisture barrier bags packed in fiber-lined drums.

VpCI-611

Additive for hydro testing, wet blasting and flash rust prevention for ferrous metals.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

VpCI-615 Corrosion Inhibitor for Boilers

Phosphonate-based long-term corrosion inhibitor which protects low to medium pressure boilers.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

VpCI-617 Boiler Water Treatment

Water soluble, provides long-term protection against corrosion and scale formation. Suitable for low to medium pressure boilers.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums.

VpCI-619 Undercoating for Insulated Surfaces

A water-based protective coating for metal surfaces that will be subsequently covered with thermal insulation. High temperature resistant formulation.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums.

VpCI-629 Inhibitor for Oil, Gas and Petrochemical Processing

Concentrated inhibitor that forms inhibitive layer to protect internal surfaces of process equipment, pipelines, tanks, vessels, reactors, valves, etc. Used for transportation and storage of hydrocarbon liquids and some gases.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

VpCI-629D/HF/SC Inhibitor for Oil, Gas and Petrochemical Processing

Inhibitor for low temperature environments with similar properties of VpCI-629. HF is a high flash point version, and SC is a super-concentrated version.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

VpCI-637 Inhibitor for Gas Flow and Transmission Lines

Provides internal corrosion protection for gas flow and gas transmission lines. Effective against water, corrosive gases and chloride contamination.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

VpCI-638

FDA-acceptable rust preventative concentrate for closed loop applications.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums.

VpCI-639 High Temperature Inhibitor for Oil, Gas and Petrochemical Processing

Inhibitor for high temperatures in oil and gas wells, refineries, gas processing, petrochemical processes and other hydrocarbon processes.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

VpCI-641 Corrosion Inhibitor for Fresh Water

Water-based rust preventative for the protection of ferrous or non-ferrous metals in industrial waters. Especially suited for closed loop systems and hydrotesting.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums.

VpCI-644 Corrosion Inhibitor for Brines

Corrosion inhibiting additive for ferrous and non-ferrous metals for water containing inorganic salts, including chlorides.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes or bulk.

VpCI-645 Marine Usage Corrosion Inhibitor

A non-toxic, biodegradable concentrate designed to provide long-term effectiveness in fresh water, salt water, brine and other highly corrosive solutions containing dissolved sulfide and halogens.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums.

VpCI-646 Ambiodic Water Treatment System









Water soluble treatment protects cooling and industrial process water systems against corrosion, scale and fouling. Environmentally safe. Open and recirculating loops corrosion and scale inhibitor.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums.

VpCI-647

Corrosion and scale inhibitor liquid concentrate for use in open recirculating cooling water systems.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

COLOR KEY:	 VpCI Electronic Products	 VpCI Metalworking Products	 VpCI Packaging Products	 Surface Preparation Product
	 Water/Oil Additives	 VpCI High Performance Coatings	 VpCI Water Treatment Products	 Concrete/Construction Products
	 Generic Chemicals	 VpCI ECO Products	 VpCI Enhanced Lubricants	

VpCI-649 Liquid/Powder for Multimetals

Water soluble inhibitor for multimetals. Recommended for closed loop cooling systems. Effective at low dosages. Also available in powder form. Corrosion inhibitor for cooling systems.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums.

VpCI-658 Undercoating for Insulated Surfaces

A liquid inhibitor for corrosion, protection of metal surfaces covered with thermal insulation. Able to be injected into insulation that is already in place to protect the metal underneath.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums.

VpCI-705 Fuel Additive

Corrosion preventive additive for gasoline, diesel, gasohol mixtures and alcohol fuels that also works as fuel stabilizer and water emulsifier. Soluble in both methanol blends as well as neat methanol fuel or neat gasoline. Approved by General Motors Corporation (approval #1066180 GM EMD Division).

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums.

VpCI-812 Wax Paste

Long lasting, high shine wax and rust blocker containing new, high performance VCIs. Protects against UV rays and fiberglass oxidation.

Package: 16 oz. (.47 liter) bottle, 5 quart (4.7 liter), 5 gallon (19 liter) pails.

VpCI-819 Wax/Rinse

Wax/Rinse emulsion with corrosion inhibitors. Available as a concentrate or diluted. Protects against UV rays, oxidation and corrosion.

Package: 16 oz. (.47 liter) pump spray bottle, 5 quart (4.7 liter) and 5 gallon (19 liter) pails.

VpCI-1238 Liquid Additive for Vapor Degreasing, Cleaning, and Stripping Baths

Liquid concentrate additive boosts protection for ferrous and some non-ferrous parts processed in vapor degreasing, cleaning and stripping baths, as well as for conventional solvent cleaning/degreasing systems.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums.

MCI[®] Coating for Rebar

MCI coating for rebar: provides protection for embedded rebar and during storage.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums.

MCI[®] Film

Black PE film designed for use in the construction industry as a vapor barrier. Provides corrosion protection and UV protection.

Package: Standard and custom sizes.

MCI[®] Grenade[®]

Migratory Corrosion Inhibitors™ packaged in water-soluble PVA bags. One grenade adds corrosion prevention to one cubic yard (0.76 m³) of concrete.

Package: 1 bag (500 g) per box.

MCI-1999/2000 Migrating Corrosion Inhibiting Admixture for Concrete, Patented

Used to prevent corrosion of rebar in concrete. To be added to concrete mix. Conforms to ASTM G-109.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums.

MCI-2001/2002 Admixtures, Patented

MCI-2001 is a powdered form of MCI-2000. MCI-2002 is a slurry form of MCI-2000, with the added benefit of microsilica. Both are Migratory Corrosion Inhibitor and concrete admixtures.

Package: 2001—50 lb. (22.7 kg) pails and 100 lb. (45.4 kg) drums. 2002—5 gallon (19 liter) pails, 55 gallon (208 liter) drums.

MCI-2003 Migratory Inhibiting Gel for Existing Concrete Structures

An injection treatment for existing concrete to prevent corrosion of embedded steel, especially in areas subject to cracks and spalling.

Package: 16 oz. (.47 liter) cartridges, 5 gallon (19 liter) pails, 55 gallon (208 liter) drums.

MCI-2005 Water-Based, Migrating, Corrosion Inhibiting Admixture for Concrete, Patented

Water-based admixture used to prevent corrosion of rebar in concrete. Also available in NS version. Conforms to ASTM G-109.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums.

MCI-2006 Powdered, Migrating, Corrosion Inhibiting Admixture for Concrete

Powdered admixture used to prevent corrosion of rebar in concrete. Based on MCI-2005 technology. Also available in NS version.

Package: 50 lb. (22.7 kg) drums and 100 lb. (45.4 kg) drums.

MCI-2007 CorrCrete™

Containing MCI[®] technology, this water-reducing superplasticizer increases the flowability of concrete, in addition to controlling corrosion of rebar. Meets ASTM C-494 Type G high range water reducing/retarding admixture requirements.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

MCI-2010/2011 MCI Emitters for Concrete, Patented

Powder packed MCI[®] Emitters offering the ease of renewable protection.

Package: 20 per carton.

MCI-2020 Migratory Corrosion Inhibitor for Existing Concrete Structures, Patent Pending

For surface treatment or injection in concrete to prevent corrosion of embedded steel. Meets NSF 61 for indirect contact with drinking water. Available in powder form. MCI-2020VO available for vertical applications. Conforms to ASTM-G109.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums.

Powder package: 100 pound (45 kg) bags.

MCI-2021 Concrete Sealer, Patent Pending

Concrete silicate sealer with Migrating Corrosion Inhibitors for the protection of concrete and rebar in concrete.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums.

MCI-2022 Sealer, Patented

Silane-siloxane penetrating waterborne, vapor-permeable, water-repelling sealer for concrete, brick, masonry units, etc. Available as MCI-2022VO (for vertical applications). Contains MCI[®] molecules.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums.

MCI-2023 Passivating Grout

Two component cementitious coating for exposed reinforced bars and other steel structures. Contains MCI[®] molecules.

Package: Powder: 26.4 lb. (12 kg) buckets.

Resin: 11 lb. (5 kg) pails.

MCI-2025

Two-component, cement-based elastomeric coating containing MCI[®] (Migrating Corrosion Inhibitors™).

Package: Component A is available in 55 pound (25 kg) bags
Component B is available in 22 pound (10 kg) pails.

MCI-2025 Primer

Two-component primer for Cortec's MCI-2025 Elastomeric Coating.

Package: Component A is available in 11 pound (5 kg) bags.
Component B is available in 22 pound (10 kg) pails.

MCI-2038 Finish Repair Mortar

Two component fiber reinforcing finish repair mortar containing Migrating Corrosion Inhibiting™ additives.

Package: 55 lb. (25 kg) bags, 11 lb. (5 kg) pails.

MCI-2039 Concrete Repair Mortar

Two component, fiber reinforced repair mortar. Excellent adhesion properties, vapor transmission qualities. Can be used for any type of concrete repair. Contains MCI[®] additive.

Package: 55 lb. (25 kg) bags, 11 lb. (5 kg) pails.

MCI-2050 Release Agent

Water based release agent that prevents "build-up" of concrete, asphalt, dirt and other debris on concrete forms or other construction equipment while preventing corrosion of metal surfaces.

Package: 5 gallon (19 liter) pails and 55 gallon (208 liter) drums.

MCI-2060 Concrete Cleaner/Degreaser

Cleaner/degreaser combined with Migratory Corrosion Inhibitors™ to protect, clean and degrease concrete structures.

Package: 5 gallon (19 liter) pails and 55 gallon (208 liter) drums.

MCI-2070

Water-based, concentrated migrating corrosion inhibitor admixture for asphalt primer coatings.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

MCI[®] Architectural Coating

MCI[®] containing water-born sealer/coating for all reinforced, pre-cast, pre-stressed, post-tensioned or marine concrete structures. Can be applied to the concrete and/or used as a rebar coating.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

Boiler Lizard[®], patented

Vapor Corrosion Inhibitor (VpCI) powder in a polyvinyl alcohol (PVA) water-soluble bag designed for dry lay-up of boilers.

Package: Carton tubes (1 bag per tube).

Closed Loop Toad[®], patented

Vapor Corrosion Inhibiting (VpCI) powders in polyvinyl-alcohol (PVA) water-soluble bags developed to provide corrosion protection in recirculating and operating cooling systems.

Package: Four 2.2 lb (1 kg) bags per box.

Cooling Loop Gator[®], patented

Vapor Corrosion Inhibitor (VpCI) powder packaged in polyvinyl-alcohol (PVA) water-soluble bags developed for seasonal, short or long-term lay-up.

Package: Four 2.2 lb (1 kg) bags per box.

Corrcaps™ VpCI Protective Covers

Elastic sewn on to VpCI 126 or EcoWeave to create a "cap" that protects exposed brake assemblies on vehicles. Excellent protection and easy application. Can be sewn from 1" (2.5 cm) diameter to over 24" (60 cm) diameter.

Package: Custom sizes.

Corr-Lube[®] VpCI Enhanced Lubricating Grease

Thixotropic grease with extreme pressure (EP) properties formulated for corrosion protection of metals exposed to severe environments.

Package: 14.5 oz. (.43 liter) cartridges, 5 gallon (19 liter), 55 gallon (208 liter) drums.

CorrLube™ Hydraulic fluid

Synthetic lubricating oil for automotive brakes, machine tools, pumps, bearings, etc. Provides excellent corrosion protection.

Package: 16 oz. (0.47 liter) bottles, 5 gallon (19 liter) pails, 55 gallon (208 liter) drums.

COLOR KEY:	VpCI Electronic Products	VpCI Metalworking Products	VpCI Packaging Products	Surface Preparation Product
	Water/Oil Additives	VpCI High Performance Coatings	VpCI Water Treatment Products	Concrete/Construction Products
	Generic Chemicals	VpCI ECO Products	VpCI Enhanced Lubricants	

■ **CorrLube™ Industrial Gear Oil**

Synthetic lubricating oil, used for a wide range of opened and closed gear sets. Provides excellent corrosion protection.

Package: 16 oz. (0.47 liter) bottles, 5 gallon (19 liter) pails, 55 gallon (208 liter) pails.

■ **CorrLube™ VpCI Motor Oils**

Automotive engine oils with VpCI protection. Grade SAE 10W-30 and 15W-40. API certified.

Package: 1 quart (.94 liter), 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

■ **CorrNetting™**

CorrNetting is extruded (non-woven) from the highest quality PE resin and Cortec multimetal VpCIs. Offers very effective packaging, which combines physical protection, cushioning and multimetal corrosion protection for sensitive mechanical parts and other sensitive materials.

Package: Available in a variety of different mesh and diameters, in tubular form or in flat sheeting.

■ **Cor-Pak® VpCI Bubbles, Patented**

NEW unique dual action: desiccant/VpCI protection.

Designed for cushioning, dunnage, void fill and interleaving. VpCI contained in bubble film provides multimetal protection. Recyclable.

Package: Standard and custom size sheeting, pouches and bundles.

■ **Cor-Pak® VpCI Static Dissipative Bubbles**

Packing bubbles provide cushioning VpCI protection while preventing triboelectric charge generation.

Package: Available in custom size rolls.

■ **Cor-Pak® VpCI Cold Seal Film**

Cohesive system with VpCI protection. Available in paper and polyethylene. Sticks firmly and only to itself.

Conforms to MIL-PRF-22019D, Type II

Package: Custom size roll stock.

■ **Cor-Pak® VpCI Corrugated PE Sheeting**

FDA approved, 100% recyclable packaging material. Easily fabricated into boxes, containers and custom totes.

Package: Available in custom size sheeting.

■ **Cor-Pak® Cushioning Film**

VpCI high density film laminated onto a closed cell foam for cushioning protection. Excellent for protecting vulnerable parts from physical damage and corrosion.

Package: Custom sizes.

■ **Cor-Pak® VpCI Film**

High density polyethylene film coated with VpCI. Protects ferrous and non-ferrous metal. Excellent barrier. 1 mil (25 micron).

Package: Standard and custom size roll stock and sheeting.

■ **Cor-Pak® VpCI Liner Film**

Exceptionally light (18 microns) and strong HDPE film for foam-in-place as well as for other wrapping and interleaving applications. Multimetal. Recyclable, Excellent barrier, tear and premature resistance.

Package: Available in single sheeting in 36 and 48 (91 and 122 cm) widths.

■ **Cor-Pak® VpCI Pipe Strip**

Low density, polyethylene rod containing VpCI designed for protection of ferrous and non-ferrous metals and alloys.

Package: 500 ft. (152 m) of .25" (6.35 mm) diameter strip wound on a spool.

■ **Cor-Pak® 1 MUL Breathable Pouches, Patented**

Tyvek® breathable membrane filled with multimetal VpCI (1-MUL). For applications where powder contamination is not acceptable. GSA 8030012081769

Package: 300 per carton.

■ **Cor-Pak® VpCI Stretch Film, Patented**

NEW unique dual action: desiccant/VpCI protection.

Holds protected parts securely in place, transparent. Does not leave residue on parts. Multimetal protection. Available in machine and handwrap grades. FDA approved and recyclable.

Package: Standard and custom roll stock.

■ **Cor Pak® VpCI Cocooning Stretch Film**

Multi-layer film. Designed for maximum strength and holding force with Superior Corrosion protection. Conforms exceptionally well to the curvature of the product with extra tear resistance. Developed particularly for low cost procedure to wrap metal coils in rolling position with eye horizontal.

Package: Standard and custom roll stock.

■ **Cor-Pak® VpCI Tablets**

All purpose VpCI for multimetal applications. Insert into packages. Nitrite free, non-polluting, for non-ferrous and ferrous metals. Meets M-I-22110

Package: 1000 per bottle, 4 bottles per carton.

■ **Cor-Pak® VpCI Tunnel Shrink Film**

Specially designed thin gauge VpCI film for automated tunnel shrink film applications. Excellent corrosion protection for automated parts protection.

Package: Custom sizes.

■ **CorShield® VpCI Gold**

A brilliant true gold colored water based coating.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

■ **CorShield® VpCI Strippable Coating**

Water-based, non-flammable, temporary strippable coating which is available in clear and colors.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

■ **CorShield® VpCI Packaging Fabric**

CorShield®, patented, is a multiple-layered protective fabric with a non-woven, soft inside layer. CorShield® is made from low-density polyethylene tapes, a high-density coating and is extrusion laminated.

Package: Standard and custom sizes available.

■ **CorShield® VpCI Transit Coating**

Water-reducible concentrate for transit protection of painted and unpainted surfaces.

Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

■ **Corrosorber™**

Scavenges corrosive gases from the atmosphere, providing passive protection against corrosion, oxidation and rust.

Package: 10 individually wrapped cartridges per carton.

■ **Corwipe® 500 Heavy Duty Cleaner, Degreaser, Anti-stat & Protectant Wipe, Patented**

Multi-purpose wipe cleans while leaving behind a protective anti-static and VpCI film. Removes oil, grease and light rust. Based on strong Dupont's® Sontara® non-woven fabric. Wipes are 8" x 10" (20.3 x 25.4 cm), folded into 5" x 11" (12.7 x 29.7 cm) pouches.

Package: 144 per carton (12 wipes per pouch, 12 pouches per carton).

■ **EcoAir™ VpCI-324**

Sprayable lubricant, non-flammable and contains no CFCs. H-1 rating and contains bacteriostatic preservative. Non-flammable.

Package: 10 oz. (284 g) cans, 12 per case.

■ **EcoAir™ VpCI-337**

Water-based fogger with a delayed release actuator. Can be enclosed in a container and left to dispense. Non-flammable.

Package: 13 oz. (369 g) cans, 12 per case.

■ **EcoAir™ VpCI-377**

Water-based rust preventative for temporary corrosion prevention.

Package: 12 oz. (340 g) cans, 12 per case. Non-flammable.

■ **EcoAir™ VpCI-414**

Water-based, biodegradable cleaner. Clings to ceilings and vertical surfaces in hard-to-reach areas. Non-flammable.

Package: 13 oz. (369 g) cans, 12 per case.

■ **EcoAir™ VpCI-423**

Water-based, non-toxic rust remover. Offers multimetal protection while removing rust. Non-flammable.

Package: 14 oz. (397 g) cans, 12 per case.

■ **EcoClean® VpCI-416**

A non-toxic liquid to remove heavy hydrocarbons, grease and machinery oils.

Package: Dozen 16 oz. (0.47 liter) bottles per carton, also available in kits.

■ **EcoClean® VpCI-423**

Thixotropic liquid uses natural organics to remove rust, scale and oxides.

Package: Dozen 16 oz. (0.47 liter) bottles per carton, also available in kits.

■ **EcoClean® VpCI-433**

Removes graffiti, inks, paints from metal, concrete and wood.

Package: Dozen 16 oz. (0.47 liter) bottles per carton, also available in kits.

■ **EcoClean® Silver and Gold Cleaner**

VpCI enhanced silver and gold polish for electrical contacts, jewelry and silverware.

Package: 16 oz. (453 gram) jars, 6 per carton.

■ **Eco-Corr® Film**

Fully biodegradable (per ASTM D 5338), aliphatic polyester film, utilizing Cortec's patented VpCI technology.

Package: Standard and custom roll stock.

■ **EcoFilm™**

Fully biodegradable, aliphatic polyester film without corrosion protection.

Package: Standard and custom roll stock.

■ **EcoLine™ All Purpose Lubricant**

VpCI lubricant based on soybean methyl esters and designed for industrial, shop and home use. It contains a friction modifier and extreme pressure additive. Provides excellent corrosion protection.

Package: 16 oz. (0.47 liter) bottles, 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

■ **EcoLine™ Bearing, Chain and Roller Lube**

This is a ready-to-use high quality rust preventative lubricant, formulated with American grown natural soya seed oil, which surpasses the lubricity performance levels of most conventional petroleum-based lubricants.

Package: 16 oz. (0.47 liter) bottles, 1 gallon (3.7 liter) pails, 5 gallon (19 liter) pails, 55 gallon (208 liter) drums

■ **EcoLine™ Cleaner/Degreaser**

Heavy-duty, water-dilutable cleaner/degreaser for tough cleaning jobs in industrial and commercial applications based on soybean methyl esters. Provides temporary corrosion protection.

Package: 16 oz. (0.47 liter) bottles, 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

■ **EcoLine™ Cutting Fluid**

Multifunctional biodegradable concentrate based on soybean methyl esters for metal cutting operations. Provides excellent corrosion protection.

Package: 16 oz. (0.47 liter) bottles, 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

COLOR KEY:	■ VpCI Electronic Products	■ VpCI Metalworking Products	■ VpCI Packaging Products	■ Surface Preparation Product
	■ Water/Oil Additives	■ VpCI High Performance Coatings	■ VpCI Water Treatment Products	■ Concrete/Construction Products
	■ Generic Chemicals	■ VpCI ECO Products	■ VpCI Enhanced Lubricants	

EcoLine™ Food Machinery Lubricating Grease

This is a high-quality, corrosion inhibiting lubricant formulated with American-grown natural soya seed oil.

Package: 16oz (453.6g) tub, 5 gallon (19 liter) pails, 55 gallon (208 liter) drums

EcoLine™ Heavy Duty Grease

Utilizing the latest biotechnology, this grease is an environmentally friendly replacement for traditional harmful greases.

Package: 14oz (396 g) cartridge, 5 gallon (19 liter) pails, 55 gallon (208 liter) drums

EcoLine™ Rust Preventative

Biodegradable temporary coating based on soybean methyl esters, and designed for use in severe marine and high humidity outdoor and indoor environments. Provides excellent corrosion protection.

Package: 16 oz. (0.47 liter) bottles, 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

EcoShield® VpCI Packaging Fabric

EcoShield®, is a patented, multiple-layered protective fabric with a non-woven, soft inside layer. Can be custom sewn. Available in blue or black.

Package: Standard and custom sizes available.

EcoSpray® VpCI-238

Protects electrical and electronic contacts and components.

Package: Dozen 16 oz. (0.47 liter) bottles per carton, also available in kits.

EcoSpray® VpCI-325

Replaces oil with natural, biodegradable lubricants and corrosion inhibitors.

Package: Dozen 16 oz. (0.47 liter) bottles per carton, also available in kits.

EcoSpray® VpCI-389

Water-based coating to rust-proof iron, steel and aluminum.

Package: Dozen 16 oz. (0.47 liter) bottles per carton, also available in kits.

EcoWeave® VpCI Woven Polyethylene

Transparent VpCI film designed for use in applications where additional strength and tear resistance are required. FDA approved and recyclable.

Package: Custom sizes.

MilCorr™ Shrink Film

Composite film, containing the ultimate additives package: Cortec® multimetal VpCIs (Vapor Corrosion Inhibitors), and UV (ultraviolet) inhibitors to provide a top-notch universal protection system.









Meets MIL-B-22019C.

Package: Sheetting and tubing form. Thickness from 10-12 mils (250-300 microns). Please contact Cortec for minimum quantities and specific sizes.

Safe-T Charges (VpCI-417/418/426)

Cleaners and rust remover in water-soluble bags. Safe and easy way to use powder products. Refer to individual products for descriptions.

Package: 1 lb (0.45 kg), 5 lb (2.3 kg) and 10 lb (4.54 kg) bags.

COLOR KEY:  VpCI Electronic Products  VpCI Metalworking Products  VpCI Packaging Products  Surface Preparation Product
 Water/Oil Additives  VpCI High Performance Coatings  VpCI Water Treatment Products  Concrete/Construction Products
 Generic Chemicals  VpCI ECO Products  VpCI Enhanced Lubricants

Military Standards

Cross Reference Guide

Cor-Pak® 1-Mul Pouch	GSA 8030012081769	VpCI™ -307	MIL I-22110C
Cor-Pak® Tablets	MIL I-22110 Federal Standard 101 ARDEC Technical Report 99-05, Picatinny Arsenal, New Jersey, USA	VpCI™ -322, VpCI™ -323, VpCI™ -326, VpCI™ -329	MIL P-46002B MIL I-85062 (Additives to oils) MIL C-16173D (Grade 3) NATO 6850-66-132-6100 MIL I-85062 (Additives to oils)
VpCI™ -101	NSN 6850-01-338-1392 MIL PRF-81705D		
VpCI™ -105	NSN 6850-01-406-2060 MIL I-22110C	VpCI™ -325, VpCI™ -327	MIL C-81309E (Grade 5)
VpCI™ -110	NSN 6850-01-338-1393 MIL I-22110C Federal Standard 101 ARDEC Technical Report 99-05, Picatinny Arsenal, New Jersey, USA	VpCI™ -327	MIL C-15075
VpCI™ -111	NSN 6850-01-408-9025 MIL I-22110C	VpCI™ -347	MIL C-16173D (Grade 5) NATO 6850-66-132-6101 NATO 6850-66-132-6102
VpCI™ -125	MIL PRF-81705D MIL PRF-22010 MIL PRF-22020	VpCI™ -368	MIL C-16173E (Grades 1 and 2) MIL C-2218A MIL C-83933A NATO 6850-66-132-5848 NATO 6850-66-132-6099
VpCI™ -126	MIL PRF-22019D MIL B-22020D Federal Standard 101 ARDEC Technical Report 99-05, Picatinny Arsenal, New Jersey, USA	VpCI™ -368 M	NSN 8030-01-430-4898
VpCI™ -130 Series	MIL PRF-81705D		
VpCI™ -133	NSN 6950-01-426-3539		
VpCI™ -144	MIL PRF-3420G		
VpCI™ -146	MIL PRF-3420G Federal Standard 101 ARDEC Technical Report 99-05, Picatinny Arsenal, New Jersey, USA	VpCI™ -369	MIL C-16173E (Grade 1) QPL 4620-1535(1) MIL C-16173D (Grades 1, 2, & 4) NSN 8030-00-244-1297
VpCI™ -148	MIL PRF-3420G	VpCI™ -369 M	MIL C-16173E (Grade 2) NSN 8030-00-244-1298 QPL 4260-1535(2) NSN 8030-00-244-1297 NSN 8030-01-149-1731
EcoShield, CorShield	MIL B-40028B	VpCI™ -373	MIL P-15438D
VpCI™ -150/VpCI™ -170	NSN 8030-01-208-1769 NATO 8030-00-244-1299	VpCI™ -415	MIL PRF-87937C
ElectriCorr™ VpCI™ -238	NSN 6850-01-413-9361	VpCI™ -560 Powder	MIL I-22110C NSN 6850-00-368-5233 QPL NAMC-AML-1333 of 7 Nov. 1961 NATO 6850-66-132-6103

*Please inquire about other products that meet or conform to military specifications.

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

CortecVpCI.com and CortecMCI.com

LIMITED WARRANTY

All statements, technical information and recommendations contained herein are based on tests Cortec Corporation believes to be reliable, but the accuracy or completeness thereof is not guaranteed.

Cortec Corporation warrants Cortec® products will be free from defects when shipped to customer. Cortec Corporation's obligation under this warranty shall be limited to replacement of product that proves to be defective. To obtain replacement product under this warranty, the customer must notify Cortec Corporation of the claimed defect within six months after shipment of product to customer. All freight charges for replacement product shall be paid by customer.

Cortec Corporation shall have no liability for any injury, loss or damage arising out of the use of or the inability to use the products.

BEFORE USING, USER SHALL DETERMINE THE SUITABILITY OF THE PRODUCT FOR ITS INTENDED USE, AND USER ASSUMES ALL RISK AND LIABILITY WHATSOEVER IN CONNECTION THEREWITH. No representation or recommendation not contained herein shall have any force or effect unless in a written document signed by an officer of Cortec Corporation.

THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE. IN NO CASE SHALL CORTEC CORPORATION BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

Distributed by:



4119 White Bear Parkway, St. Paul, MN 55110 USA
Phone (651) 429-1100, Fax (651) 429-1122
Toll Free (800) 4-CORTEC, E-mail: info@cortecvci.com
www.CortecVpCI.com

printed on recycled paper 10% post consumer

Revised 12/02. Cortec®, Corr-Mitt™, EcoAir™, Eco-Corr®, Eco Emitter™, EcoLine™, EcoSpray®, EcoClean®, EcoShield™, EcoWeave®, MCI®, Cor-Lube™, Cor-Mastic™, Cor-Pak®, CorShield®, Corrosorb™, CorrCrete™, Corwipe®, EcoCoat™, ElectriCorr®, MCI® Grenade™ Migrating Corrosion Inhibitors™, Migratory Corrosion Inhibitors™, Primecoat™, Total Corrosion Control™, VpCI™, VpCI CorrVert™, VpCI Film Color of Blue™ and VHDRS™ are trademarks of Cortec Corporation.
©Cortec Corporation 2002. All rights reserved.



Certificate No. 70781

Certificate No. 81867