VpCI® Electrical & Electronic Products

for the protection of electronics, enclosures, instrumentation, controls, and O.E.M. applications.
Cortec® VpCI® Electrical & Electronic Products

Value-Added Features:

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

Cortec® Emitting Systems Offer—Reliability, Service Life, and Cost Reduction.
Corrosion of complex electrical and electronic equipment is an increasingly serious problem causing expensive failures. Corrosion occurs during manufacturing, shipping, storage, and field operations. It can be caused by:

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

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

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

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

EMITTERS

VpCI®-101 Device Patented
- Patented VpCI® impregnated foam
- Continuous corrosion protection for 1 cubic foot of enclosed space
- Non-toxic
- NSN# 6850-01-338-1392
- MIL-B-81705C
- FDA and USDA approved

VpCI®-105 Emitter, & VpCI®-111 Emitter Patented
- One way Tyveck release membrane.
- Nitrite, silicone and phosphate free.
- Economical and long lasting protection.
- VpCI®-105 protects 5 cubic feet, and VpCI®-111 protects 11 cubic feet of enclosed space.

Cortec® VpCI®-150 and VpCI®-170 Tape, Patented
- VpCI® impregnated foam tapes with adhesive backing.
- Corrosion protection lasts up to two years.
- NATO# 8030-00-244-1299, MIL-B-81075C, NSN 8030-01-208-1769
- FDA and USDA approved.

CORWIPE

Corwipe® 500 Patented
- Strong DuPont Sontara® wipe
- Cleaner/Degreaser
- Anti-Stat
- Removes surface rust
- Corrosion inhibitor for multimetals
- Disposable
PACKAGING

**Cortec® VpCI®-125 Patented**
- VpCI® impregnated film.
- Excellent corrosion protection.
- Superior dissipative qualities.
- MIL SPEC# B-22020C II.
- MIL SPEC# B-81705C II.
- MIL SPEC# PRF-817050.
- FDA and USDA approved.

**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

**Cor-Pak® I MUL Pouches Patented**
- No cleaning
- Self replenishing
- 24-month protection
- Multi-metal protection
- Dual properties-desiccant/corrosion inhibitor

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

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

**Corrosorber®**
- Absorbs corrosive gases
- Irreversible reaction
- Non-toxic
- Superior performance against H2S
- Changes color as it is used up
- Quick installation

**ElectriCorr® VpCI®-239**
- Excellent outdoor corrosion protection.
- Designed for aggressive environments.
- Non-conductive
- Anti-static
- Perfect for exposed contacts and relays.
- UV Indicator

**ElectriCorr® VpCI®-238**
- Instant corrosion/oxidation protection
- No CFC’s
- Displaces moisture
- Anti-static
- 2 year indoor protection
- NSN# 6850-01-413-9361

**ElectriCorr® VpCI®-248**
- Long-term corrosion protection
- Increased corrosion protection at a lower cost than conventional rust preventives
- Minimized field service
- Non-flammable

**ElectriCorr® VpCI®-286**
- Conforms to surface
- Continuous corrosion protection
- Fast drying
- No VOC’s
- UV indicator
- Vibration resistant
- Extends board life

**ElectriCorr® VpCI®-239**
- Excellent outdoor corrosion protection.
- Designed for aggressive environments.
- Non-conductive
- Anti-static
- Perfect for exposed contacts and relays.
- UV Indicator

**ElectriCorr® VpCI®-248**
- Excellent outdoor corrosion protection.
- Designed for aggressive environments.
- Non-conductive
- Anti-static
- Perfect for exposed contacts and relays.
- UV Indicator

**Cortec’s Vapor Corrosion Inhibitor stands up to vigorous testing.**

This accelerated test method for rust protection in a humidity cabinet is used for evaluating the rust preventative properties of metal preservatives under conditions of high humidity.

One circuit board was left untreated in an enclosure while the other was treated with Cortec’s Vapor Corrosion Inhibitor protection. The criteria for passing or failing the test is the size and number of rust dots on the test surfaces.
<table>
<thead>
<tr>
<th>Product (description)</th>
<th>Protection</th>
<th>Packaging</th>
<th>Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>EcoEmitter® (EcoEarth™)</td>
<td>Uncoated emitting device filled with nontoxic VpCI® for multifunctional protection. Constructed from biodegradable and renewable materials. © 2016 Cortec®.</td>
<td>0.33 ft³ (28 L)</td>
<td>10/carton</td>
</tr>
<tr>
<td>VpCI-100</td>
<td>Vapor phase Corrosion Inhibiting device with adhesive backing. 2 x 1.25 x 0.125 in. (5 x 32 mm x 3 mm). Conforms to MIL-PRF-81705C Type II, and MIL-PRF-81705D. Patented, accepted FDA, USDA Approved (Canada).</td>
<td>10/carton (300 g)</td>
<td>5/carton</td>
</tr>
<tr>
<td>VpCI-105</td>
<td>Vapor phase Corrosion Inhibiting device with adhesive backing. 2 x 1.25 x 0.32 in. (5 x 32 mm x 8 mm). Conforms to MIL-PRF-81705C Type II, and MIL-PRF-81705D. Patented, accepted FDA, USDA Approved (USA).</td>
<td>10/carton (300 g)</td>
<td>5/carton</td>
</tr>
<tr>
<td>VpCI-111</td>
<td>Vapor phase Corrosion Inhibiting device with adhesive backing. 2 x 1.25 x 0.63 in. (5 x 32 mm x 16 mm). Conforms to MIL-PRF-81705C Type II, and MIL-PRF-81705D. Patented, accepted FDA, USDA Approved (USA).</td>
<td>10/carton (300 g)</td>
<td>5/carton</td>
</tr>
<tr>
<td>VpCI-133</td>
<td>Vapor phase Corrosion Inhibiting device with adhesive backing. 2 x 1.25 x 1.25 in. (5 x 32 mm x 32 mm). Conforms to MIL-PRF-81705C Type II, and MIL-PRF-81705D. Patented, accepted FDA, USDA Approved (USA).</td>
<td>10/carton (300 g)</td>
<td>5/carton</td>
</tr>
<tr>
<td>VpCI-150</td>
<td>Vapor phase Corrosion Inhibiting device with adhesive backing. 2 x 1.25 x 2.5 in. (5 x 32 mm x 64 mm). Conforms to MIL-PRF-81705C Type II, and MIL-PRF-81705D. Patented, accepted FDA, USDA Approved (USA).</td>
<td>10/carton (300 g)</td>
<td>5/carton</td>
</tr>
<tr>
<td>VpCI-170</td>
<td>Vapor phase Corrosion Inhibiting device with adhesive backing. 2 x 1.25 x 3.125 in. (5 x 32 mm x 80 mm). Conforms to MIL-PRF-81705C Type II, and MIL-PRF-81705D. Patented, accepted FDA, USDA Approved (USA).</td>
<td>10/carton (300 g)</td>
<td>5/carton</td>
</tr>
</tbody>
</table>

**Corrosorber**
- Capsule for absorption of corrosive gases. 2.5 x 1.275 in. (64 x 32.3 mm). Conforms to MIL-PRF-81705C Type II, and MIL-PRF-81705D. Patented, accepted FDA, USDA Approved (USA).

**Corrier**
- Full line of Corrier and Corrier comprise spray and non-spray options for general and specific applications.

**Packaging**
- **Corriwraps®**
  - Liner-free Complete System for sealing and protecting equipment, tools, and raw and coated metal. Non-hazardous, Patented. Varies from 12 to 500 per roll. patented, national shipping.
  - 12 rolls/carton
  - 300/carton

- **VpCI-238**
  - Multifunctional contact cleaner and non-conductive corrosion inhibitor. 12 oz. (340 g) cans, drums. Conforms to MIL-PRF-81705C Type II, and MIL-PRF-81705D. Patented, accepted FDA, USDA Approved (USA).
  - 6 cans/carton

- **VpCI-239**
  - Outdoor version of VpCI-238. 12 oz. (340 g) cans, drums. Conforms to MIL-PRF-81705C Type II, and MIL-PRF-81705D. Patented, accepted FDA, USDA Approved (USA).
  - 6 cans/carton

- **VpCI-248**
  - Non-flammable contact cleaner and non-conductive corrosion inhibitor. 12 oz. (340 g) cans, drums. Conforms to MIL-PRF-81705C Type II, and MIL-PRF-81705D. Patented, accepted FDA, USDA Approved (USA).
  - 6 cans/carton

**Spray**
- **VpCI-259**
  - Polyurethane-based conformal coating. 1 oz. (30 ml) aerosol cans, drums. 240-320 ft²/gal. 491 ml (16 fl oz). 0.033 m² (0.33 m²). Patented, accepted FDA, USDA Approved (USA).
  - 6 cans/carton

**Corri Curet**
- Capsule for absorption of corrosive gases. 2.5 x 1.275 in. (64 x 32.3 mm). Conforms to MIL-PRF-81705C Type II, and MIL-PRF-81705D. Patented, accepted FDA, USDA Approved (USA).

**Limited Warranty**

Cortec® Corporation warrants Cortec® products against defects in material and workmanship at the time of sale and for a period of up to six years from the date of sale. 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 following warranty is exclusive and in lieu of all other warranties, express, implied or statutory, including without limitation any implied warranty of merchantability or 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.CortecVCI.com

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

Revision: 10/10 Supersedes: 09/10. Cortec®, VpCI®, VpCI-Desicorr, VpCI-Desicorr™, VpCI-Desicorr®. EcoEarth™, MIP®, MIP Desiccant®, EcoSpray®, EcoCoat®, Eco Emitter™, EcoSol™, Eco-Tie™, EcoCard™, Eco-Shrink™, EcoWrap™, Eco Film™, Cor-Mitt®, Cor-Pak®, CorShield®, Lizard®, Cooling Tower Frog®, Closed Loop Toad®, Cooling Loop Gator®, Pine Tree Logo®, CRI®, Metacor™, and Rust Hunter™ are trademarks of Cortec Corporation 2010. All rights reserved.