

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



### PRODUCT DESCRIPTION

ElectriCorr VpCI-286 Conformal coating was designed to extend long-life performance of new and repaired electronic assemblies, especially those which are under adverse corrosion conditions such as high heat and atmospheric humidity. This non-conductive coating is a technological breakthrough in a new generation of circuit board conformal coatings; combining outstanding moisture intrusion prevention as well as superior corrosion resistance with Cortec's patented Vapor phase Corrosion Inhibitor technology.

Cortec's conformal coating protects printed circuit assemblies against contamination by providing a sealed microenvironment around the circuit board and its components.

The VpCI coating forms a barrier against microscopic dendrite growth, termination and surface corrosion, moisture, fungus, dust, and other environmental contaminants. ElectriCorr VpCI-286 also enhances circuit reliability by prohibiting dangerous conditions such as leakage from high impedance circuits with high component density topography.

ElectriCorr VpCI-286 is a single component formulation that is easier to use than two component coatings eliminating special metering and mixing

equipment. Also, ElectriCorr VpCI-286 contains an optical identifier visible with UV light, assuring rapid and effective visual confirmation of proper coating on surfaces.

### FEATURES

- Conforms to the surface being coated
- Very low conductivity
- Continuous corrosion inhibition
- Fast drying
- VOC free\*
- Easily removed with solvents for repair
- Fluoresces under UV light
- Available in aerosols and bulk liquid

### TYPICAL APPLICATIONS

- Field repair of printed circuit boards
- Manufacture of printed circuit boards

### APPLICATION

Aerosol use:

Spray a very light mist over the area needing protection.

Bulk liquid:

Dip coat or apply with a spray gun.

### TYPICAL PROPERTIES

Appearance	Clear liquid
Coverage	240 - 320 ft <sup>2</sup> /gal @ 1 mil (6 - 8 m <sup>2</sup> /l @ 25 microns)
Dry to Touch	5 to 10 minutes
Dry Film Time	24 hours
Carrier	t - butyl acetate
Shelf Life	1 to 2 years
Removal Method	Acetone or MEK
Non-Volatile Content	14% - 17%
VOC*	0 lbs/gal (0 kg/l)
Density	7.3 - 7.5 lbs/gal (0.87 - 0.9 kg/l)

Dielectric Withstand (Volts)

Pre = 0.01 μamps

Post = 0.01 μamps

Resistance to Solvents:

- Water
- Alcohols

Recommended Thinner:

- t-butyl acetate
- butyl acetate
- acetone

### PACKAGING AND STORAGE

ElectriCorr VpCl-286 is available in 5 gallon pails (19 liters), 55 gallon drums (208 liters), totes, bulk, and 12 oz. aerosol cans (340 g.).

---

\* Solvent used in the bulk liquid is scheduled to be added to a list of compounds excluded from the definition of VOC (in the second quarter of 2002), due to negligible contribution to ozone formation.

### FOR INDUSTRIAL USE ONLY

**KEEP OUT OF REACH OF CHILDREN**

**KEEP CONTAINER TIGHTLY CLOSED**

**NOT FOR INTERNAL CONSUMPTION**

**CONSULT MATERIAL SAFETY DATA SHEET FOR MORE INFORMATION**

### 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 products 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](mailto:info@cortecvci.com)  
Internet <http://www.cortecvci.com>

printed on recycled paper  100% post consumer  
Revised 3/12/122. Cortec Corporation. 1999-2012 Supersedes: 7/15/11. ElectriCorr® and VpCl® are trademarks of Cortec Corporation.  
© 2012, All Rights Reserved. Copying of these materials in any form without the written authorization of Cortec Corporation is strictly prohibited. ISO accreditation applies to Cortec's processes only.