

VpCI® EMITTING SYSTEMS & ELECTRONIC PRODUCTS

ElectriCorr® VpCI®-286 Acrylic-based Conformal Coating



PRODUCT DESCRIPTION

ElectriCorr® VpCI®-286 Conformal coating was designed to ensure 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. This non-conductive coating combines 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. This is most important where there are tighter component packaging densities and increased performance requirements.

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 ² /gal @ 1 mil (6 - 8 m ² /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	15% - 20%
VOC*	0 lbs/gal (0 kg/l)
Density	7.3 - 7.5 lbs/gal (0.87 - 0.92 kg/l)

Dielectric Withstand (Volts)

Pre = 0.01μamps

Post = 0.01μamps

Resistance to Solvents:

- Water
- Alcohols

Recommended Thinner:

- t-butyl acetate
- butyl acetate
- acetone

* 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

PACKAGING AND STORAGE

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

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