



**CORTEC**  
CORPORATION

Environmentally Safe VpCI®/MCI® Technologies

**Technical Service**

## VpCI-239

Solvent-based thin film rust preventative.

## ElectriCorr 239

Solvent-based corrosion inhibitor with VpCIs in an aerosol spray can

## Typical Properties:

### VpCI-239

Appearance	Clear Amber Liquid
Density	6.7-6.9 (lb/gal)

# VpCI-239

## Application Guide

### I. Surface Preparation

The following surface preparation standards are recommended:

SSPC – SP1

This specification calls for a surface free of grease, oil, corrosion, and foreign materials (dirt, dust, mill scale, etc.).

### II. Application (Aerosol)

ElectriCorr 239 should be applied to electronics and enclosed spaces as follows:

1. Spray ElectriCorr 239 on surface to be protected from a distance of 1-2 feet away.
2. Spray a thin, even coating over the surface.
  - a. All electronics should be cold and powered down during application.
3. Ensure all critical surfaces have been sprayed and covered with ElectriCorr 239.
4. Surfaces should have a slightly glossy appearance. If an amber film forms on the surface or pooling is visible, ElectriCorr 239 has been overapplied.
5. Close and cap any enclosed areas protected by ElectriCorr 239 to provide the best product performance.

### III. Application (Liquid)

VpCI-239 can be applied by dip or spray as follows:

1. Dip Application
  - a. Add VpCI-239 to a clean dip tank.
  - b. Submerge the part requiring protection and ensure all areas (including any recessed areas) are coated.
  - c. Remove the part and allow it to dry prior to packaging or further processing.
2. Spray Application
  - a. A light coating should be sprayed on to the metal part. If an amber film appears on the metal part, the VpCI-239 has been over applied.
    - i. Over application of VpCI-239 will require a longer dry time.
  - b. Ensure all critical surfaces have been sprayed and covered with VpCI-239.
3. It is acceptable to capture and reuse any dripping material after application.
4. Active air drying and increasing the temperature will decrease the dry time. An excess of air can remove too much VpCI-239 and prevent proper film formation; the temperature should not be greater than 140 °F (60 °C).
5. Parts should be allowed to adequately dry prior to further packaging.

## IV. Recommended Equipment

HVLP, conventional, airless, and air-assisted airless spray equipment can be used to effectively spray VpCI-239, as well as standard in-line spray equipment. Exact equipment settings should be selected to ensure proper spray pattern and coverage of VpCI-239.

HVLP/Conventional Spray Systems	Airless/Air-Assisted Airless
Tip Size: 0.009” – 0.021”	Tip Size: 0.015” – 0.035”
Air Pressure: 45 – 55 psi; Fluid Pressure: 10 psi	Pressure: 1800 – 2500 psi

## V. Removal

VpCI-239 can be removed by solvent cleaning or cleaning with a Cortec VpCI-41x series cleaner/degreaser (e.g. VpCI-414, VpCI-416, VpCI-418LM).

## VI. Notes

1. DO NOT APPLY ElectriCorr 239 to electrical cabinets or systems that are “hot” or powered-on.
2. VpCI-239 has some limited ability to penetrate preexisting oil films. Complete removal of existing oils may not be necessary but should be evaluated on an individual basis for efficacy.
3. The application rate of VpCI-239 is approximately 1400 ft<sup>2</sup>/gal (30 m<sup>2</sup>/l). This value may vary by ±20% depending on the application method.

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For more information, or recommendations on your specific application, please contact Cortec Technical Service.

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. Any data represent typical values and neither constitute nor are intended for use as a specification.

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