

LORD® PC11159 Silver Conductive Coating

Description

LORD® PC11159 silver conductive coating is a thermo-setting epoxy body silver coating designed primarily for use as a conductive electrode for tantalum capacitors. It can also be used as a general-purpose conductive paint for printed circuit board repair and electromagnetic shielding applications.

Features and Benefits

Application Diversity – provides excellent rheological properties for either dip or paint applications.

Slow Settling – provides very good resistance to settling; easily mixed after storage.

Excellent Stability – cured film provides excellent electrical and environmental stability both initially and upon aging.

Low ESR – provides low Equivalent Series Resistance (ESR) for tantalum capacitor electrode terminations.

Application/Processing

Mixing – Allow material temperature to adjust to ambient conditions. Slowly roll material on a jar-rolling machine for several hours before using to redisperse any settled material. Material may also be shaken using a high-speed paint shaker for 15-20 minutes. If paint shaker is used, material must be allowed to stand for some time prior to application in order for entrapped air bubbles to escape. If dilution is needed, use LORD 3992 thinner.

Applying – Apply material by paint or dip methods.

- **Painting**
Apply directly by brush for general repair applications.
- **Dipping**
Use full strength unless viscosity exceeds specifications through evaporation. If material is in the dip tank for an extended period, occasional mild agitation of the material will be required to prevent settling. Blotting of parts is recommended after dipping to remove excess material.

Typical Properties*

Appearance	Silver Liquid
Viscosity, cps @ 25°C Brookfield RVT, Spindle 3, 50 rpm	600-700
Cured	
Resistivity, ohms-cm Dried @ 150°C for 10 min Cured @ 210°C for 30 min	< 0.0002

*Data is typical and not to be used for specification purposes.

LORD TECHNICAL DATA

Drying/Curing – Allow parts to air-dry for at least 10 minutes in a well-ventilated area. Minimum drying/curing profile is 200°C for 30 minutes. Optimum cure schedule will vary depending on application and will need to be determined empirically.

Cleanup – Use conventional organic solvents such as acetone or isopropyl alcohol for cleanup.

Shelf Life/Storage

Shelf life is one year from date of manufacture when stored refrigerated at a maximum temperature of 10°C in original, unopened container. Do not store near heat, sparks or open flame.

If material is stored at 18-25°C, shelf life will be shortened to approximately two months.

Cautionary Information

Before using this or any LORD product, refer to the Safety Data Sheet (SDS) and label for safe use and handling instructions.

For industrial/commercial use only. Must be applied by trained personnel only. Not to be used in household applications. Not for consumer use.

Values stated in this technical data sheet represent typical values as not all tests are run on each lot of material produced. For formalized product specifications for specific product end uses, contact the Customer Support Center.

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