

LORD® PCC40514 Silver Conductive Coating

Description

LORD® PCC40514 silver conductive coating is a thermosetting epoxy polymer 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 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 – Before using, allow material temperature to adjust to ambient conditions. Consult handling instructions** for specific guidelines.

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 3998 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.

**Handling instructions are available on LORD.com.

Typical Properties*

Appearance	Silver Liquid
Viscosity, cps @ 25°C Brookfield LVT, Spindle 2, 12 rpm	900-1100
Cured	
Resistivity, ohms-cm Dried @ 125°C for 15 min Cured @ 220°C for 60 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 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 six months from date of shipment when stored refrigerated at 5°C in original, unopened container. Do not store near heat, sparks or open flame.

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.

Information provided herein is based upon tests believed to be reliable. In as much as LORD Corporation has no control over the manner in which others may use this information, it does not guarantee the results to be obtained. In addition, LORD Corporation does not guarantee the performance of the product or the results obtained from the use of the product or this information where the product has been repackaged by any third party, including but not limited to any product end-user. Nor does the company make any express or implied warranty of merchantability or fitness for a particular purpose concerning the effects or results of such use.

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