

# LORD® 2232 Silver Conductive Coating

## Description

LORD® 2232 silver conductive coating is designed for use with tantalum capacitor electrode terminations. The composition is a silver-bearing, thermoplastic body silver designed primarily for use as a conductive electrode solder base for tantalum capacitors. It can also be used as a general-purpose conductive coating for printed circuit board repair and electromagnetic shielding applications.

## Features and Benefits

**Application Diversity** – provides excellent rheological properties for either dip or paint applications; designed for use as a dippable silver coating for metallizing tantalum capacitors.

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

**Solderability** – readily solderable using conventional tin/lead/silver solders for external lead attachment.

**Excellent Stability** – cured film provides excellent electrical and environmental stability both initially and upon aging; remains stable at higher temperatures.

## Application/Processing

**Mixing** – 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 2232 solvent.

**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<br>Brookfield LVT<br>Spindle 2, 60 rpm                    | 425           |
| Settling Rate, mm/hr  | ≤ 2           |
| <b>Cured</b>  |               |
| Resistivity, ohms/sq/mil<br>Dried @ 80°C for 10 min<br>Cured @ 125°C for 15 min | ≤ 0.100       |
| Solder Wetting, seconds<br>62Sn/36Pb/2Ag solder @ 200°C                         | 2-3           |

\*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, followed by a two-step drying/curing process. Oven dry parts at 80°C for approximately 10 minutes to remove solvent, then cure film at 150°C for 30 minutes. Optimum cure schedule will vary depending on application and will need to be determined empirically.

**Soldering** – Optimum lead attachment is achieved using tin/lead/silver solders with mildly activated (diluted) fluxes. Good solderability can be achieved with 62Sn/36Pb/2Ag solder at 195-215°C.

**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 at 25°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 Material Safety Data Sheet (MSDS) 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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