

Silver Conductive Epoxy Adhesive

MP011123 is an electrically conductive, silver-filled 2-part epoxy adhesive. It is smooth, non-sagging, thixotropic, and bonds well to a wide variety of substrates.

This product allows for quick, cold-soldering repairs. It can also be used as a solder replacement for bonding heat-sensitive electronic components, or for making conductive connections where soldering is not an option, such as when bonding to glass, soft metals, or plastics.

MP011123 has been formulated to be economical.

Features and Benefits

- Creates strong permanent electrical connections
- Cures at room temperature
- SVHC free
- Excellent adhesion to many substrates
- Room temperature storage
- Long shelf life

Usage Parameters

Working Time	: 20 min
Service Cure	: 65 min @ 22°C
Mix Ratio by Volume	: 1:1
Mix Ratio by Weight	: 1.1:1

Uncured Properties

Mixed Density	: 2.4 g/mL
Shelf Life	: 3 y
Viscosity @ 25 °C	: (A) 130 Pa·s (B) 130 Pa·s

Storage and Handling

Store between 16 and 27°C in a dry area, away from sunlight (see SDS). To maximize shelf life, recap product firmly when not in use.

Cured Properties

Resistivity	: $1.8 \times 10^{-3} \Omega \cdot \text{cm}$
Hardness	: 78 D
Tensile Strength	: 13 N/mm ²
Compressive Strength	: 69 N/mm ²
Lap Shear (stainless steel)	: 5.6 N/mm ²
(aluminum)	: 5.1 N/mm ²
Glass Transition Temperature (T _g)	: 35°C
CTE Prior T _g	: 58 ppm/°C
CTE After T _g	: 234 ppm/°C
Thermal Conductivity @ 25°C	: 1.5 W/(m·K)
Service Temperature Range	: -50°C to 150°C

Cure Instructions

Allow to cure at room temperature for 6 hours, or cure the adhesive in an oven at one of these time/temperature options:

- 10 min @ 65°C
- 5 min @ 80°C

Syringe

1. Twist and remove the cap from the syringe. Do not discard cap.
2. Measure 1 part by volume of A.
3. Measure 1 part by volume of B.
4. Dispense material on a mixing surface or container, and thoroughly mix parts A and B together.
5. To stop the flow, pull back on the plunger.
6. Clean nozzle to prevent contamination and material buildup.
7. Replace the cap on the syringe.

Part Number Table

Description	Part Number
Silver Conductive Epoxy Adhesive, 14G, 2mL, Syringe kit	MP011123

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