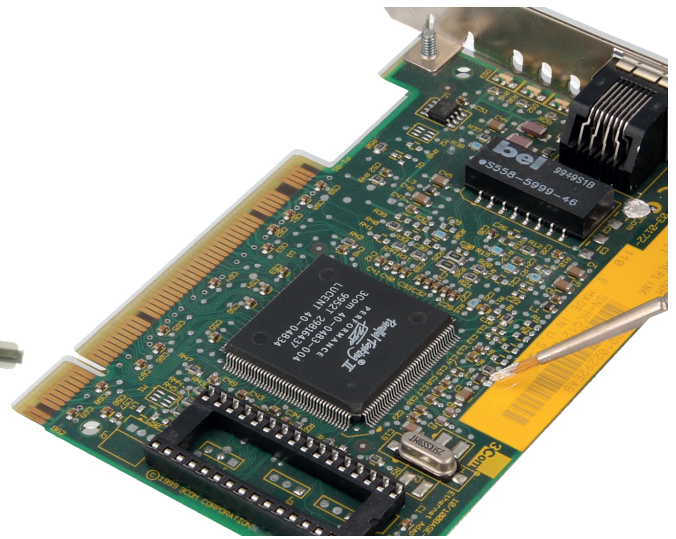


# ELECTRICALLY CONDUCTIVE GLUE (SHIELDOKIT) 3980

Electrically conductive glue / Electrically conductive adhesive



Shieldokit creates an electrically and thermally conductive connection between components (electrically conductive adhesive). One of the applications is EMI shielding. The conductive glue cures at room temperature and has excellent filling properties. The viscosity of conductive glue is comparable to peanut butter, so it can be used to fill in uneven surfaces.

The product consists of a two-component epoxy-based glue containing 65% silver. It is a paste which can be applied to metals (copper, aluminum, stainless steel, brass, etc.), ceramics and most plastics.

## TECHNICAL APPLICATION

Shieldokit is designed to connect components at temperatures between 20 and 80°C.

## STRUCTURE

Shieldokit is a solvent-free, silver pigmented two components conductive adhesive, based on epoxy resin.

## SPECIAL CHARACTERISTICS

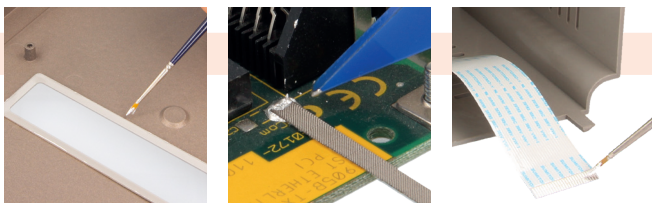
Shieldokit shapes a strong connection with excellent conductivity. The two components base offers a hardening at room temperature and the adhesive is thereby suitable to connect temperature-sensitive components.

## APPLICATION

Shieldokit can be applied with a dispenser or by screen printing. It is absolutely necessary to clean all used tools immediately.

## STANDARD PACKAGE

Shieldokit is typically supplied in PE-cans of 14 gram.



## CURED PROPERTIES

Resistivity	7.0 x 10 <sup>-3</sup> Ω·cm
Hardness	73 D
Tensile Strength	13 N/mm <sup>2</sup>
Compressive Strength	39 N/mm <sup>2</sup>
Lap Shear (stainless steel) (aluminum)	3.8 N/mm <sup>2</sup> 5.5 N/mm <sup>2</sup>
Water Absorption	0.04 %
Outgassing @ 125 °C for 24 h	6.3 %
Glass Transition Temperature (T <sub>g</sub> )	50 °C
CTE Prior T <sub>g</sub>	54 ppm/°C
CTE After T <sub>g</sub>	169 ppm/°C
Thermal Conductivity @ 25 °C	1.4 W/(m·K)
Service Temperature Range	-55–150 °C

## USAGE PARAMETERS

Working Time	10 min
Service Cure	5 h @ 22 °C
Mix Ratio by Volume	1:1
Mix Ratio by Weight	1.04:1

## UNCURED PROPERTIES

Mixed Density	2.29 g/mL
Shelf Life	2 years after production date
Viscosity @ 25 °C	(A) 1.000 Pa·s (B) 15.000 Pa·s

## CURE INSTRUCTIONS

The product will cure at room temperature for 24 hours, or cure the adhesive in an oven at one of these time/temperature options: 15 min @ 65 °C, 7 min @ 125 °C

## ORDER EXAMPLE

Series

**3980**