



UK DISTRIBUTORS OF  
**REINHARDT-TECHNIK**  
 Metering & Mixing  
 Dispensing Systems



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**Elecolit® 342 – Technical data sheet**

Elecolit ® 342 is a 1K silver-filled electro conductive coating substance with excellent glass, metal and plastics bonding properties, which cures to a hard film in the air. This product contains solvents. It can be processed with brushes, dispensers or via needle transfer. Electric conductivity is excellent. A high mechanical strength cannot be achieved by using this product.

Elecolit ® 342 has excellent glass bonding properties and is, for example, being used to create windshield defroster contacts in cars, or RFI shielding of electronical housings. After extended storage periods, the product must be homogenized, given that it sediments naturally in low viscose resin.

Shelf life: 6 months at 25°C

**Technical Data**

Colour: Silver  
 Resin: Acrylate  
 Filler: Silver max. 10µ

**Uncured Properties**

Viscosity (Brookfield LVT/25°C) [mPa*s]	PE-Norm P001	1000 to 2000
Flash Point [°C]	PE-Norm P050	> 44
Density [g/cm³]	PE-Norm P003	2.3 approx.

**Curing**

12	hours	at	25 °C	0.01 Ohm x cm
2	hours	at	50 °C	
30	minutes	at	100 °C	
10	minutes	at	120 °C	0.001 Ohm x cm

**Cured Properties**

Temperature Resistance [°C]	PE-Norm P030	-40 to 150
Hardness [Shore D]	PE-Norm P052	75
Volume Resistivity [Ohm x cm]	ASTM-D-257-93	0.001
Water Absorption [mass-%]	PE-Norm P053	< 0.6
CTE [ppm/K]	PE-Norm P017	77
Thermal conductivity [W/m-K]	ASTM 1530	1.9

## Instructions for Use

### Surface Preparation

The surfaces to be bonded should be free of dust, oil, fat or any other dirt in order to optimise reproducible results. Lightly soiled surfaces can be cleaned with cleaner IP to create a suitable working surface.

### Application

Our products are delivered ready for use. As soon as you receive them, you can dispense or use them for screen printing processes. You should store the products at 5°C for longer shelf life time. Before using acclimatise the adhesive up to room temperature. Liquid Elecolit products have to be homogenised well before application. Paste-like products can be used directly.

1-C Products have no mixing ration and pot life time.

### Curing

For curing heat must be applied. The polyaddition starts at temperature over 100°C. Higher temperature will reduce the curing time. For detailed curing information, please look into the technical data sheet. Higher curing temperature will lead to better electrical conductivity and less volume resistivity.

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