



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



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## Elecolit® 414 – Technical data sheet

Elecolit® 414 is a 1part silver-filled, electrical conductive coating substance, that hardens into a flexible, chemical resistant, elastic film. When used with common plastics Elecolit® 414 has outstanding bonding properties (among others on polyamide). It is, for example, used in foils for exterior mirrors, that are heated.

Shelf life: 6 months at 5°C

### Technical Data

Colour: Grey  
Resin: Polyester  
Filler: 87% Silver flakes 16µ approx.

### Uncured Properties

Viscosity (Brookfield LVT/25°C) [mPa*s]	PE-Norm P001	20000 to 25000
Flash Point [°C]	PE-Norm P050	> 58
Density [g/cm <sup>3</sup> ]	PE-Norm P003	2.84 approx.

### Curing

16 minutes at 70 °C	0.0005 Ohm x cm
8 minutes at 125 °C	
5 minutes at 150 °C	0.00005 Ohm x cm

### Cured Properties

Temperature Resistance [°C]	PE-Norm P030	-55 to 200
Hardness [Shore D]	PE-Norm P052	55
Volume resistivity [Ohm x cm]	ASTM-D-257-93	5E-05
Tg [°C] (DSC)	PE-Norm P009	20 to 25

## **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 IPA 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 acclimate 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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