TECHNICAL DATASHEET

Elecolit® 414

Elecolit® 414 is a 1K silver-filled, electro conductive coating substance, that hardens into a flexible, chemical resistant, expandable, non-deformable and friction resistant 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 25°C
9 months at 5°C

Technische Daten :

Color	grey
Resin	polyester
Filler	approx. 87% Silberflakes 16µ

UNCURED PROPERTIES

Viscosity (Brookfield LVT/25°C) [mPa*s]	PE-Norm P001	20000 to 25000
Flash point [°C]	PE-Norm P050	> 58
Density [g/cm³]	PE-Norm P051	approx. 2.84

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

Adhesives and more...

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

Generally the guidelines for application, storage etc. as mentioned in our general data sheet for Elecolit® are valid.

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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 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.

If help is required, please contact our engineering department.
Please read the corresponding **Safety Data Sheet** for this product.

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