

ELEKTROPOL

Application:

ELEKTROPOL is an electrically conducting adhesive designed for electroconducting joints.

ELEKTROPOL replaces soldering.

ELEKTROPOL is suitable for any repair of electric and electronic equipment.

ELEKTROPOL forms an electroconducting link between different materials especially in the cases when the soldering is impossible to use.

ELEKTROPOL can be used within the temperature scale $-30 \sim +80^{\circ}\text{C}$.



Advantages:

ELEKTROPOL eliminates local overheating of construction which is a disadvantage of soldering.

ELEKTROPOL enables linking of uneasily accessible elements.

ELEKTROPOL provides an opportunity to create a planar electrically conducting layer.

ELEKTROPOL is applicable for creating semiflexible electrically conducting joints including joints of hydrophobic surfaces (Teflon).

Types of ELEKTROPOLS:

ELEKTROPOL 1 is one-component electrically conducting solution adhesive on the base of water suspension. The period of drying of the adhesive is about 4 hours.

ELEKTROPOL 2 is a two component electrically conducting adhesive with the mixing ratio of the components 2:1 volume parts. The adhesive is processable during 30 minutes at 25°C . At 25°C the adhesive hardens in 24 hours, increasing the temperature speeds up the process (for instance 4 hours at 80°C).

Properties:

	Elektropol 1	Elektropol 2
P-steel	10.0	12.4
P-aluminium	9.4	10.4
P-glass	13.4	14.2
R [W.cm]	$5 \cdot 10^{-2}$	$5 \cdot 10^{-2}$

P: The strength of the adhesive joint in [MPa].

R: Specific electric resistivity in [W*cm]