



Sole UK Distributors Of
REINHARDT-TECHNIK
Metering, Mixing &
Dispensing Systems



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Technical Data Sheet **ELECOLIT 3042**

ELECOLIT 3042 is an electrically conductive acrylic paint containing silver, exhibiting excellent conductivity due to the high silver content and outstanding environmental protection because of the acrylic base.

ELECOLIT 3042 sets by solvent evaporation similar to most good lacquers. It forms a tough mar-resistant flexible film with very good adhesion to ceramics, glass, rubber, plastics and plastic films. Applications suggested for **ELECOLIT 3042**, among many, are RF shielding, printed circuit repair, conductive ink, component lead terminations and prototype circuit manufacture.

TYPICAL PROPERTIES

Viscosity (Brookfield LVT)	2,000 mPas
Density	2.3 g/cm ³
Flash Point	44°C
Filler	Ag
Cure at 25°C	12 hours
50°C	2 hours
100°C	30 minutes
120°C	10 minutes
Water absorption	0.6%
Hardness Shore D	75
Temp resistance	-40°C to +150°C
Coefficient of thermal expansion	77 ppm/K
Thermal conductivity	1.9W/mK
Spec. Volume Resistivity	0.001 Ohm x cm
Shelf life at 25°C	6 months

HOW TO APPLY

ELECOLIT 3042 self-priming paint can be applied as supplied either by dipping, brushing, silk screening or roller after all surfaces have been cleaned of dirt and grease. For spraying **ELECOLIT 3042**, reduce the viscosity by adding toluene or other lacquer thinners. These solvents can also be used to remove excess material before it dries.

Thin films will tack free in air within 15 minutes and be completely dry overnight. The removal of solvent after air drying by heat curing during 35-45 minutes at 150°C - 175°C will increase considerably electrical conductivity and the adhesion properties.

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