

TECHNICAL – INFORMATION

Bickers Elcoleit 342

Elcoleit 342 is a electrically conductive silver containing acrylic paint exhibiting excellent conductivity due to the high silver content and outstanding environmental protection because of the acrylic base. Applications suggested for Elcoleit 432 are among many, RF shieldinh, printed circuit repair, conductive ink, component lead terminations and prototype circuit manufacture.

Elcoleit 432 sets by solvent evaporation similar to most good lacquers. It forms a tough, mar-resistant flexible film with every good adhesion to ceramics, glass, rubber, plastics and plastic films.

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Properties (TYPICAL):

Viscosity (Brookfield):	2.000 mPas
Density:	2,3 g/cm ³
Flash Point:	44°C
Filler:	Ag
Cure at 25°C:	12 hrs.
50°C:	2 hrs.
100°C:	30 min.
120°C:	10 min.
Water absorption:	0,6 %
Hardness Shore:	75 D
Operating Temp.:	-40°C -+ 150°C
Coeffizient of thermal expansion:	77 10 ⁻⁶ / °C
Thermal conductivity:	1,9 W/mk
Spec. Volume Resistivity	0,01 – 0,001 Ohm x cm
Shelf life at 25°C:	6 month
5°C:	9 month

How to apply:

Elcoleit 342 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 Elcoleit 342 reduce it viscosity by adding toluene or other lacquer thinners. These solvents can also be used to remove excess material before it dries.

Thin films will dry 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.