

127-49A/B

TWO-COMPONENT HIGH TEMPERATURE ELECTRICALLY CONDUCTIVE INK

DESCRIPTION: 127-49A/B is an electrically conductive, two-component, silicone ink and coating suitable for high temperature applications. 127-49A/B is suitable for application via syringe dispensing and screen printing. Unlike typical conductive inks, the high temperature capability of this product makes it useful in a range of unique applications such as extreme performance coatings. 127-49A/B is also able to cure at room temperature.

TYPICAL PROPERTIES:

Viscosity (cps)	Approx. 40,000
Filler	Silver
Percent Silver (cured)	> 80
Volume Resistance (Ω -cm)	0.00004
Sheet Resistance (Ω /sq./mil)	0.015
Solderable	No
Hydrolytic Stability	Excellent
Useful Temperature Range ($^{\circ}$ C)	-70 to +450
Thermal Stability ($^{\circ}$ C)	Good to +550

SUGGESTED HANDLING & CURING: Pre-mix part A to ensure homogenous dispersion of filler. Settling of filler in part A is not uncommon. Add 2 to 5% by weight Part B to Part A and mix until homogeneous. Best properties, for most applications, result when cured for 2 hours at 70 $^{\circ}$ C followed by 1 hour at 150 $^{\circ}$ C. Good properties are obtained on a variety of substrates by curing at temperatures ranging from 25 $^{\circ}$ C to 180 $^{\circ}$ C. End user is advised to experimentally determine temperature and time best suited for individual applications. Product develops full properties at room temperature between 2 and 7 days depending on thickness.

STORAGE: Shelf life: 6 months at 25 $^{\circ}$ C in unopened, unmixed containers.

NOTE: Use catalyzed product within 4 hours.

SAFETY & HANDLING: Contains flammable ingredients. Use with adequate ventilation. Keep away from sparks and open flames. Avoid prolonged contact with skin and breathing of vapors. Wash with soap and water to remove from skin.

NOTE: 127-49 Part A *does not cure* without the addition of Part B.