

Creative Materials, Inc.
12 Willow Road
Ayer, MA 01432T 978.391.4700
F 978.391.4705**125-19(SP)A/B****FLEXIBLE HIGH TEMPERATURE ELECTRICALLY CONDUCTIVE INK****DESCRIPTION**

125-19(SP)A/B is a highly elastomeric, electrically conductive, silicone-based ink. This product features a high-performance design useful in a wide range of printing and coating applications and features excellent bonding to most metal and plastic substrates. This product is very resistant to flexing and creasing and is ideal for applications that include, but are not limited to, wearable electronics, high temperature bonding, and stretchable, elastomeric conductors. 125-19(SP)A/B is one of the few conductive materials that can bond/adhere to silicone substrates and surfaces and features a uniquely long pot life.

MIXING INSTRUCTIONS

Premix each part in original containers prior to mixing them together by hand until the combination is uniform.

	Part A	Part B
Color	Silver	Silver
Specific Gravity	2.4	2.4
Mix ratio by weight	1.0	1.0
Pot-Life once mixed at 25°C		4 days.

UNIQUE FEATURES

- * Excellent Bonding to Difficult Surfaces
- * Wide Range of Applications
- * High Temperature Resistance
- * Screen Printable/Syringe Dispensable

TYPICAL PROPERTIES (Mixed)

Viscosity (cps)	40,000
Filler	Silver
Percent Silver (cured)	> 66
Specific Gravity (water=1)	2.4
Crease Resistance	Excellent
Volume Resistance (Ω -cm, MAX)	0.0003
Sheet Resistance (Ω /sq./mil, MAX)	0.1
Solderable	No
Hydrolytic Stability	Excellent
Useful Temperature Range (°C)	-60 to +280
Thermal Stability (°C)	Good to +360

SUGGESTED HANDLING & CURING

125-19(SP)A/B is ready to use as supplied. Further thinning may be accomplished by adding small amounts of CMI 127-05 or Xylene. Prior to using, be certain to re-suspend silver. Good properties are achieved when cured for 60 minutes at 150°C but end user is advised to experimentally determine temperature and time best suited for individual applications. 125-19(SP)A/B is not recommended for applications that cannot cure below 150°C.

STORAGE

Shelf life: 12 months at 25°C in unopened unmixed containers.

SAFETY & HANDLING:

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.

All technical information is based on data obtained by CMI personnel and is believed to be reliable. No warranty is either expressed or implied with respect to suitability in a particular application or possible infringements on patents.

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