



ELPOX SC 24D

ELECTRICALLY CONDUCTIVE, SILVER EPOXY

- * SINGLE COMPONENT
 - * FOR DISPENSING & STAMPING APPLICATION
 - * FAST CURING FORMULATION

GENERAL DESCRIPTIONS:

ELPOX SC 24D is a single component, 100% solid (thinners free) and very fast curing epoxy type system containing pure silver flakes. It is very smooth, soft and thixotropic paste. It keeps the shape very accurate, and it doesn't give the "Piggy - Beck" tail fashion dots from this material.

ELPOX SC 24D has a very good adhesion to many different types of materials - especially glass, quartz, semiconductor chips and metals. It is design for chip bonding of resistors, capacitors, transistors, diodes, IC's, MOS, CMOS, LID's and LED's.

The best method is using it in dispensing or stamping machines. Dots are the same even in less like 100u size. **ELPOX SC 24D** is ideal for transfer method too, because this system will not "dry out" on a plate of stamping machine. It can be for screen printing method also.

SPECIFICATIONS:

Number of components	One
Consistency	Floable paste, 100% solids
Color	Silver
Percentage of silver	75 ± 1%
Viscosity	360 000 – 400 000 cps (*)
Thixotropy index (1/10 rpm)	3.3 – 3.5
Recommended curing schedule	140 C - 30 min. 170 C - 5 min.
Working life	1 month (on open area)
Storage	6 month with closed container

(*) BROOKFIELD DVII; SSA#14; 1rpm; 25C

PHYSICAL PROPERTIES (*):

Specific gravity	2.1 - 2.3 g/ccm
Lap shear strength	0.7 - 0.8 kG/mm ²
Studs pull test	15.7 - 16 kg
Weight loss (300 C)	1.6 %
Thermal conductivity	2.5 - 3.0 W/mK
Glass transition temp. (Tg)	95 C
Resistivity after curing	0.000002 - 0.000005 Ωm

(*) – Typical value for number of tests.

ATTENTION:

ELPOX SC 24D is supplied as a single component material and is available in a variety of screw-top jar sizes. Minimum quantity is 100 grams.

1. Mix **ELPOX SC 24D** – very thoroughly before use. Mix smoothly from the bottom of the container. Mix carefully - not to whip air into the product. **INSURE ELPOX SC 24D IS AT ROOM TEMPERATURE WHEN YOU WILL START WORKING WITH.**
2. Prepare consistency before use according your SPECIFICATION.
3. If you need, use AXMC **TH # 24D** thinner. Thinner will change paste resistivity. Pls, do not exceed 1% of weight. After first tests pls. let us know about your viscosity requirements – we will be able to change it for you.
4. Low conductivity and poor adhesion performance are symptomatic that **ELPOX SC 24D** is under curing conditions.
5. Refrigeration during shelf time is useful. Keep container with lacquer in temp. no less 10 C. Before use, increase pastes temperature very slowly.
6. Use silver epoxy paste with adequate ventilation.
7. Avoid skin and eye contact. If ingested, consult a physician immediately.
8. Clean by MEK, alcohol or other suitable solvents.

WARNING:

Be careful on the case contacts with skin. When it occurs, wash immediately with soap and water.

This information is based on data and tests believed to be accurate. **AMEPOX MC** makes no warranties (expressed or implied) as to it's accuracy and assumes no liability in connection with the use or inability to use this product.

(Elx-sc24d)