



# ELPOX AX 12LVT

ELECTRICALLY CONDUCTIVE, SILVER EPOXY

- \* **TWO COMPONENTS EPOXY ADHESIVE**
- \* **FOR PROFESSIONAL – ELECTRONIC APPLICATIONS**
- \* **LOWER TEMPERATURE CURING VERSION**
- \* **LOWER VISCOSITY VERSION**

## GENERAL DESCRIPTIONS:

**ELPOX AX 12LVT** is a two components, 100% solid (thinners free) epoxy base adhesive containing the purest silver flakes, especially for surface mounting applications and popular uses in electronics production process. This is generally modification of **ELPOX AX 12LT** type with much floable (lower viscosity) properties of this formulation.

**ELPOX AX 12LVT** has soft paste consistency and it has very good adhesion to many different types of materials - especially glass, quartz, semiconductor chips and oxide covered metals. This formulation is very easy to use and has very convenient pot life time and curing conditions.

## SPECIFICATIONS:

Number of components	Two.
Mixing ratio A : B (by weight)	1 : 1
Consistency after mixing A+B	Soft paste, 100% solids.
Color	Silver.
Percentage of silver	55 ± 1%
Viscosity (A+B)	250 000 – 290 000 cps (*)
Thixotrophy index Ti = (10/100)	5.4 - 6.0
Recommended curing schedule	80° C - 25 min. 100° C - 15 min. 120° C - 10 min.
Recommended curing with IR heating tunnel	150° C (peak) – 5 min (total time)
Pot life	5 hours @ 25° C.
Storage	6 months with closed container @ 25° C.

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

## **PHYSICAL PROPERTIES (\*):**

Specific gravity	2.35 – 2.65 g/ccm
Thermal conductivity	3.0 - 3.5 W/mK
Glass transition temp. ( Tg )	Ab. 95° C (TMS method).
Resistivity after curing	0.00015 – 0.00025 Ωcm

(\*) – Typical value for number of tests.

## **ATTENTION:**

**ELPOX AX 12LVT** is supplied as a two component material and is available in a variety of screw-top jar sizes. Minimum order quantity is 100 grams.

1. Mix **ELPOX AX 12LVT** – Part “A” and “B” inside containers separately first very thoroughly before use. After adding hardener – Part “B”, mix mixture “A+B” very thoroughly before use, with wood or plastic spatula. Mix smoothly from the bottom of the container. Mix carefully - not to whip air into the product. ***INSURE ELPOX AX 12LVT 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 # 12** 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/or poor adhesion performance are symptomatic that **ELPOX AX 12LVT** is under curing conditions.
5. Refrigeration during shelf time is useful. Keep containers with both parts of adhesive in temp. no less 10° C. Before use, increase temperature very slowly.
6. Use silver epoxy 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.

(ELPOX AX 12LVT)