ELPOX AX 12EV

ELECTRICALLY CONDUCTIVE, SILVER EPOXY

*** TWO COMPONENTS EPOXY ADHESIVE**
*** FOR PROFESSIONAL – ELECTRONIC APPLICATIONS**
*** FULL SHIFT POT LIFE**

GENERAL DESCRIPTIONS:

ELPOX AX 12EV 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 simply modification of **ELPOX AX 12** type with this same viscosity for both parts of this formulation.

ELPOX AX 12EV 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 time.

SPECIFICATIONS:

Number of components	Two.
Mixing ratio A : B (by weight)	3 : 2
Consistency after mixing A+B	Soft paste, 100% solids.
Color	Silver.
Percentage of silver	60 ± 1%
Viscosity (A+B)	12 000 – 13 500 cps (*) 7 000 – 8 200 cps (**)
Thixotrophy index Ti = (10/100)	4.5
Recommended curing schedule	120° C - 120 min. 140° C - 100 min.
Recommended curing with IR heating tunnel	150° C (peak) – 5 min (total time)
Pot life	8 hours @ 25° C.
Storage	6 month with closed container @ 25° C.

(*) BROOKFIELD DVII; SSA#14;10 rpm;25C
(**) BROOKFIELD DVII; SSA#14;20 rpm;25C

PHYSICAL PROPERTIES (*):

Specific gravity	2.25 – 2.35 g/ccm
Thermal conductivity	3.0 - 3.5 W/mK
Glass transition temp. (Tg)	88° C (TMS method).
Resistivity after curing	0.0004 – 0.0006 Ωcm

(*) – Typical value for number of tests.

ATTENTION:

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

1. Mix **ELPOX AX 12EV** – 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 12EV 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 12EV** 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.