



THERMOPOX 80CT

THERMALLY CONDUCTIVE EPOXY

- * NEW GENERATION THERMALLY CONDUCTIVE EPOXY
- * **VERY HIGH THERMALLY CONDUCTIVE COEFFICIENT**
- * **SMOOTH AND SOFT PASTE**
- * **ELECTRICALLY INSULATION MATERIAL**

GENERAL DESCRIPTIONS:

THERMOPOX 80CT is one component, 100% solid - new generation thermally conductive formulation. This paste has special prepared copper type of filler with very high tap density value. At this way is possible to fill of **THERMOPOX 80CT** as high as 80% of this filler. Because copper is material with the best thermally coefficient value (after silver), is possible to offer formulation with extremely high thermally properties ab. 2 W/mK (ab. 13 BTU in/ sqft hr F).

THERMOPOX 80CT is formulation with working time without any limitation. This is very convenience for all production applications. This system has to be cure at moderate range of temperature, around 150°C.

THERMOPOX 80CT has a very good adhesion to many different types of materials - especially glass, quartz, semiconductor chips and metals. Excellent thermally conductive properties are reason that **THERMOPOX 80CT** is ideal for all professional applications, where high heating occurs.

SPECIFICATIONS:

Number of components	Single.
Consistency	Heavy paste, 100% solids.
Color	Dark red.
Percentage of fillers	80 ± 1%
Viscosity	200 000 – 240 000 cps (*) 200 – 240 Pa s.
Thixotropy index (1/10 rpm)	2.8 – 3.2
Recommended curing schedule	150° C - 15 min. 170° C - 4 min.
Storage	6 months with closed container @ 25° C.

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

PHYSICAL PROPERTIES (*):

Specific gravity	3.6 – 3.9 g/ccm.
Thermal conductivity	Min.: 1.4 – 1.8 W/mK.
Electrical resistivity	> 5 x 10 E (6) Ωm.
Adhesion to ceramic after curing	No less like 0.8 kG

(*) – Typical value for number of tests.

ATTENTION:

THERMOPOX 80CT is supplied as a double component material and is available in a variety of screw-top plastic jar sizes only. Minimum quantity is 100 grams.

1. Mix **THERMOPOX 80CT** very thoroughly before use by wood or plastic spatula. Mix smoothly from the bottom of the container. Mix carefully - not to whip air into the product. **INSURE THERMOPOX 80CT 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 # 80** thinner. Thinner will change paste mechanical properties. 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 mechanical properties and poor adhesion performance are symptomatic that **THERMOPOX 80CT** is under curing conditions.
5. Refrigeration during shelf time is useful. Keep container with formulation in temp. no less 10° C. Before use, increase paste temperature very slowly.
6. Use 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.

(Thermo-80CT)