



EPOXY ADHESIVE

K-POXY TP223

KEOL K-POXY TP223 is an epoxy-based structural adhesive specifically formulated for electronic applications requiring thermal transfer. Thanks to its optimized conductive filler technology, K-POXY TP223 adhesive ensures high-performance heat transfer and adhesion to a wide variety of technical substrates.

- **TWO-COMPONENTS**
- **THERMALLY CONDUCTIVE**
- **ROOM TEMPERATURE HARDENING**
- **RATIO 1 : 1**

CHEMICAL BASIS	EPOXY
COLOR	BLUE
HARDNESS	70 D
PARTICLE SIZE	20 µm

PROPERTIES	UNITS	K-POXY TP223
Chemical base	-	Epoxy
Appearance	-	Paste
Color	-	A : Cream / B : Blue
Mixing ratio A:B (volume)	-	1 : 1
Thermal conductivity	W/m.K	2.23
Bulk density – A	g/cm ³	3.09
Bulk density – B	g/cm ³	2.86
Particle size (D50)	µm	20
Tensile strength <i>Norm ISO 527-1</i>	MPa	6
Elongation at break <i>Norm ISO 527-1</i>	%	13
Shear strength <i>Norm EN1465</i>	MPa	FR4 4,5
		ALUMINIUM 5754 4
		304 STAINLESS STEEL 4
		COPPER 2
Hardness	Shore D	70
Exposure temperature	°C	-40 to +150°C
Gel time (23°C)	Hours	4
Complete curing	Hours	72
Shelf life in packaging	Months	6

COLLE EPOXY**SURFACE PREPARATION**

The strength and durability of joints depends on proper pretreatment of the surfaces to be bonded. At a minimum, the bonded surfaces should be cleaned with a good degreasing product to remove all traces of dust, dirt, oils or grease. When possible, perform mechanical abrasion to remove paint from surfaces (if necessary) and to increase the strength and retention of the adhesive. Allow the pre-treated surface to dry before applying the adhesive.

**PACKAGING AND APPLICATION**

KEOL K-POXY TP223 is available in 2*75cc syringes (A+B).

The product is designed for dispensing from a two-components volumetric valve fitted with a 16-element static mixer.

The minimum diameter of the dispensing needle is 0.2mm.

**PRODUCT STORAGE**

Shelf life of **KEOL K-POXY TP223** is 6 months in its original unopened packaging. The product can be stored in a closed container, in a dry place protected from humidity and excessive heat. Storage between 15°C and 25°C. Exposure to higher or lower temperatures will result in a reduction of the indicated shelf life, as well as possible loss of performance.

**NOTE**

The information, and particularly the recommendations concerning the application and KEOL products, are given to you in good faith and are based on current knowledge and experience of the products having been properly stored, handled and applied under normal conditions. KEOL cannot assume responsibility for the results obtained by others since we have no control over their method. It is up to the user to determine the suitability of the products for the specific application for any production methods mentioned in this document. Also, it is up to the user to adopt the necessary precautions as advised for the protection of the establishment and persons against any kind of risks that may arise during the handling and use of the products. KEOL cannot assume any warranties mentioned or implied, including warranties of merchantability or fitness for a particular reason, arising from the sales or use of KEOL products. KEOL cannot assume responsibility for incidental or consequential damages of any kind, including lost profits. Users should always refer to the most recent edition of the technical data sheet for the relevant product. Copies of this document will be provided on request.