

2K-Epoxy-System Type C



**liquid
aluminium-filled
up to +220°C (+428°F) high temperature resistant**

Temperature resistant and liquid epoxy resin system, specially for the industrial use. Non-corrosive, anti-magnetic, cures practically without shrinkage.

2K-Epoxy-System C C is particularly suitable as an adhesive for large-scale applications, for pouring out moulds and for the production of fixing devices and tools (e.g. injection moulds). It can be used in the tool and mould making sector, as well as in many other industrial areas subjected to high thermal stress.

Technical Data

Composition	Epoxy resin aluminium-filled
Specific Properties	liquid, high temp. resistant
Colour after curing	grey
Mixing ratio by weight resin/hardener	100:8
Density of the mixture (200g preparation)	1,62 g/cm³
Viscosity of the mixture	25.000 mPa·s
Consumption at a coating thickness of 1,0 mm	1,62 kg/m²
Maximum layer thickness for each working step	60 mm
Pot life at +20°C (+68°F) 200g preparation	60 min.
Curing time mechanical loads	24 h
Final strength after	48 h
Mean strength at +25°C (+77°F) acc. to DIN 53281-83 ASTM D 1002:	
Pressure	140 Mpa
Bending	77 Mpa
E-Modul	5.800 - 6.000 Mpa
Shore D (ATSM D 1706)	90
Shrinkage	0,01 %
Thermoforming resistance	+130 °C
Temperature resistance	-35 to +120 °C
ISSA-Code	75 509 07/08

Information about surface pre-treatment and processing can be found in the manual.

*To achieve a permanently high temperature resistance, we recommend to temper-harden after 48 hours as detailed below:
2 h at +40°C, 2 h at +60°C, 2 h at +80°C, 2 h at +100°C, finally 14 h at +120°C

Storage

Store 2K-Epoxy-System Type C at room temperature (but up to max. +25°C) in a dry place. Unopened containers can be stored for 18 months at temperatures from +18 to +25°C (Epoxy Resin Putty max. 3 years). Opened containers should be used within 6 months.

Safety and health

When using products, the physical, safety technical, toxicological and ecological data and regulations in our EC safety data sheets must be observed.

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