

KLEIBERIT 512.0

2C PUR Moulding Compound

Areas of use

- Manufacture of filter end caps.

Advantages

- Long-term resistance in aqueous urea solution (32.5%)
- Good chemical resistance
- High tear strength and good impact resistance
- Efficient processing using mixing and dosing plant

Properties of the moulding compound

Two-component system, solvent-free, cold setting

Base:	Polyurethane
Component A:	KLEIBERIT 512.0
Component B:	KLEIBERIT 519.5
Density:	Comp. A: 0.93 ± 0.02 g/cm ³ Comp. B: 1.22 ± 0.02 g/cm ³
Viscosity at 20°C	
- Brookfield RVT:	Comp. A = 5,600 ± 1,000 mPa·s Comp. B = 27 ± 7 mPa·s Mixture = 1.500 – 2.000 mPa·s
Mixing ratio:	Comp. A : Comp. B = 100 : 50 parts by weight
Gelling time (100 g in a beaker):	approx. 8 minutes other settings are possible
Colour:	natural / beige
Consistency:	flows well
Identification:	Comp. B: requires identification according to EU regulations, contains 4,4'Diphenylmethanediisocyanate (see our safety data sheet)

Mechanical properties

Hardness (Shore D): 47 ± 5

Hardness (Shore A): 96 ± 3

Mechanical values in the initial state and after long-term storage at elevated temperatures in a urea-water solution

Storage conditions	Test temperature		
	23 °C	85 °C	-40 °C
In the initial state			
- Tensile strength (MPa)	12.5	2.5	25
- Elongation at break (%)	200	100	7
After storing of 2000 h @ 60 °C + 250 h @ 80 °C			
In urea-water solution (32.5%)			
- Tensile strength (MPa)	12	1.6	24
- Elongation at break (%)	250	110	6.5

Please allow for lineal and physical shrinkage when constructing moulds.

Cause: Cooling of the reaction and the moulded form to room temperature.

Please perform your own tests beforehand.

Processing

The moulding compound is processed using a 2-component mixing and dosing plant. Detailed information of manufacturers of such plant is available upon request.

The most favourable working temperature is between 20-25°C. Higher temperatures will accelerate, and lower temperatures will reduce the speed of the setting process.

Homogenise component A before use.

KLEIBERIT 512.0

Cleaning

For cleaning purposes and to flush out the mixing and dosing plant, we recommend the use of KLEIBERIT 820.0.

Please observe the instructions supplied by the manufacturers of the plant used.

Container sizes

KLEIBERIT 512.0, Cp. A:

Metal pail 22 kg net

KLEIBERIT 519.5, Cp. B:

Plastic canister 5.5 kg net

Cleaner

KLEIBERIT 820.0:

Metal can 22 kg net

Additional packaging sizes available upon request.

Storage

KLEIBERIT 512.0 (Comp A) is not frost sensitive and can be stored in original closed containers for a minimum of 6 months.

KLEIBERIT 519.5 (Comp B) is **sensitive to cold and frost**. Transport and storage temperature must be kept **above +10 °C**. When kept dry, component B can be stored in the original closed containers for approx. 6 months.

Optimal storage temperature is 20-25 °C.

The contents of opened containers should be used as quickly as possible.

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Adhesive and Waste Disposal

Waste Code 080410 Component A
Waste Code 080501 Component B

Our containers are made of recyclable material. Well drained containers can be recycled.

Service

Our application department may be consulted at any time without obligation. The statements made herein are based on our experience gained to date. They are to be considered as information without obligation. Please test and establish for yourself the suitability of our products for your particular purposes. No liability exceeding the value of our product can be derived from the foregoing statements. This also applies to the technical consultancy service which is rendered free of charge and without obligation.