

Characterize

- ✓ Elastic, Strong, High Details
- ✓ Amber, High tensile force
- ✓ Shore A 40
- ✓ Min. 1 mm to max. 60 mm castable.
- ✓ 23-27 minutes processing time
- ✓ Mixing ratio in weight: 100:50

Polyurethane Casting System A40 Flexible

This PU is perfect to use for castings, fixing molds, foundry models, replicas and prototypes.

Description

A Polyurethane casting system consisting of an A Component and B component. This casting system is characterized in particular by its quality and simplicity in use. The system is perfect for small flexible castings. PU is usually more resistant to wear and tear than silicone, but is more sensitive to UV and temperature

Technical data

	Unit	
Mixing ratio (weight)	[Polyol:Isocyanat]	100:50
Processing time @ 25°C 100 grams* 40 mm	[min]	23
Yellowing time @ 25°C 15 ml, 5mm	[min]	45
Ontmaltijd @ 25°C	[hours]	18
Density @ 25°C	[g/cm ³]	1.05
Linear contraction	[%]	<0.1
Color		amber
Elongation before break	[%]	1000
Max casting thickness (depending on whole volume)	[mm]	60 mm
Hardness	[Shore A]	40

**larger quantities or higher temperatures shorten the working time and reduced the possible casting thickness. Then work in a colder environment if possible.*

Processing

Pour the components together and mix well. Pour the mixed product into the mold with a constant jet and pay attention not to enclose air. Excessive heat generation in castings of more than 50-60 mm thickness can be prevented by pouring several successive layers (let the layer stiffen before pouring the next one). Wait to de-mold until the specified time has passed.

Important

The moisture absorbers in these products can settle, requiring renewed mixing before use. This can be achieved by shaking the packaging intensively before use. The less filler you add, the greater the heat development of the casting and the less thick you can pour in one go. Use a large-surfaced mixing bucket to maximize potlife.

Packaging

The Polyurethane casting system comes in a set of A and B component (Polyol and Isocyanate)

Shelflife

The polyurethane casting system must be stored in a dry place between 6 – 28 oC the expiry date, which assumes storage within the specified conditions, is indicated on the packaging. Arrived packaging must be processed as quickly as possible to ensure product quality. The normal shelf life is 6 months.

Safety requirements

The products are generally fairly harmless to use provided that the usual precautions are taken which are customary when processing chemical products. For example, both components should not come into contact with food or eating utensils. Contact with the skin of one or both components should be prevented as people with sensitive skin will react to this. For further information, see safety data sheets.