

# SILICONES and more



## Characteristics

### Polyurethane Casting system D70 Fast

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

#### Description

A polyurethane casting system consisting of an A component, B component that hardens at room temperature. This casting system is characterized in particular by its quality and ease of use. This PU gives a flexible result that is perfect for small to medium sized castings. PU is usually more resistant to abrasion than silicone, but is more UV and temperature sensitive

- Beige colored two-piece system
- Designed for fast, flexible precision castings
- Can be molded into a layer thickness of 30 mm
- De-mouldable after 6 hours
- Good Tear resistance

#### Technical data

	Unit	Non filled	Filled with PU filler
Mix ratio (Weight)	[Isocyanat: Polyol: Filler]	1: 1: 0	1: 1: 3
Operating time @ 20°C	[Min]	2	4
Cure time @ 20 °C	[Min]	15	30-40
Density @ 20 °C	[G / cm <sup>3</sup> ]	1.08	1.6
Linear shrinkage	[%]	0,2	0,15
Max layer thickness in one pour	[mm]	4-30	30-40
Glass temperature	[°C]	60-70	60-70
Hardness	[Shore D]	70	80

#### Processing

Pour the components together and mix well. Pour the mixed product with a constant flow into the mold, making sure no air is entrapped. Excessive heat in castings of more than 30 mm thickness can be prevented by pouring multiple successive layers (let the layer harden till it is over its exothermal peak before the next layer is poured). Hold the de-moulding until the specified time has elapsed. The thermal and mechanical properties will develop rapidly, but it is possible to improve the thermal behavior by "post curing" the cast for a few hours at a temperature of 60 °C.

#### Important

The dehumidifiers in these products tend to settle out. We therefore recommend aggitating the components before decanting. The less filler you add, the higher the exothermic peak will be. Adding a heat conducting filler will make casting thicker layers possible. Use a mixing vessel with large surface area in order to make a maximum pot life. Adding to much filler might make the product more rigid and brittle.

#### packing

The polyurethane casting system is supplied in a kit consisting of: 0 1Kg A + 0,4 kg B

#### Durability

The polyurethane casting system should be stored in a dry place between 6-28 ° C, the expiration date, which is based on storage within the specified conditions, is indicated on the packaging. Opened packages should be processed as quickly as possible to ensure product quality. Normal shelf life is about 6 months.

#### safety

These products are chemicals. Please be careful while using the liquids. Only use With proper safety measurements like fluid tight gloves and safety goggles. Please keep out of range of children!

#### Use/ Do:

