

# SILICONES and more

## Impact-resistant polyurethane D75

### Neukadur Multicast 11, impact-resistant PU

#### Description

A polyurethane or PU casting system consisting of 2 components and an optional filler. This casting system is characterized in particular by its quality and simplicity of use and very high impact resistance, even when processed at room temperature. The system is perfect for small castings, fixing molds, foundry models, replicas and prototypes.

#### Technical data

	Unit	Non filled	Filled with PU filler
Mix ratio (Weight)	[A: B: Filler]	1: 1: 0	1: 1: 3
Operating time @ 20°C	[Min]	7	5
Cure time @ 20 °C	[Hours]	14	10
Density @ 20 °C	[G / cm <sup>3</sup> ]	1.08	1.6
Linear shrinkage	[%]	0,2	0,2
Max layer thickness in one pour	[mm]	4-5	30-40
Glass temperature	[°C]	67.5	67.5
Hardness	[Shore D]	75	85

#### Processing

Add half of the desired filler to the A component and the other half to the B component. Now mix the [filler](#) thoroughly with the components. You can of course skip this previous step if you do not wish to use filler. Pour the components together and mix well again. Pour the mixed product into the mold with a constant jet, being careful not to entrap any air. Excessive heat development in castings of more than 5 or 40 mm thickness can be prevented by pouring several successive layers (allow the layer to set before pouring the next one). Wait until the indicated time has elapsed before demoulding. The thermal and mechanical properties will develop quickly, but it is possible to improve the thermal behavior by "post-baking" the casting at a temperature of 80°C for 8 hours. DO NOT use an oven in which you want to prepare food later!

#### Important

The dehumidifiers in these products tend to settle out. We therefore recommend agitating 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.

#### 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

Please note: these are chemical products. Handle it with care and adhere to the safety instructions as written below and on the safety sheets.

Use safety equipment such as liquid-tight gloves and splash goggles and sufficient ventilation. Always keep out of reach of children and do not allow children to work with it. Not even under supervision.

### Characteristics

- ✓ Hard, Small to slightly larger castings
- ✓ Beige, Strong, High details, very impact resistant
- ✓ Shore D 75 Unfilled
- ✓ Castings 4mm <->30mm
- ✓ 5-7 minutes working time
- ✓ Mixing ratio (Weight) 100:100

Use/ Do:

