

Characteristics

- 100:50 mixing ratio
- Low viscosity
- Detailed copies
- Low shrinkage
- Very stretchy

Polyurethane Casting Resin Flexible A60

This Polyurethane is perfect for flexible castings, and for fixing molds, foundry models, replicas and prototypes. A polyurethane casting system consisting of an A- and 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

- Amber-colored two-part system
- Permanently elastic
- Pourable up to a layer thickness of 60 mm. Please note, do not make a volume that is too big at when pouring this thick!
- Can be removed from the mold after 15 to 18 hours
- Good tear resistance and high elongation

Technical data

- Mixing ratio by weight: A:B = 100:50
- Processing time at 25°C*: 12-16 minutes
- Demolding time at 25°C: 15-18 hours
- Density: 1.05 g/cm³
- Linear shrinkage: <0.1%
- Elongation: 1000%
- Hardness: Shore A 40

* For 100 gram. Larger quantities and higher temperatures result in a much shorter pot life.

Processing

Mix/ agitate the components in their packaging before decanting. 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 or big volumes 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. Final specs will be reached after 7 days!

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 too much filler might make the product more rigid and brittle.

Only process Pu with a temperature of 20-25°C in a room at 15-25°C.

The mix is very important. If there is a deviation of more than 3%, the result will be different than specified. For very small amounts, this means you need a very accurate scale.

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

- Always work in a well-ventilated area. Use an organic gas mask in less well-ventilated areas or with larger quantities or with frequent use.
- Use liquid-tight nitrile gloves and splash goggles.
- Do not smoke or eat while using and handling this product.
- Wash hands well after use.
- For large quantities also wear an apron or wear everywhere.
- In case of contact with skin, wash thoroughly with soap
- In case of contact with eyes, rinse immediately with plenty of water (a few minutes).
- If complaints persist, consult a doctor and take the safety data sheet with you!

Use and/or do:

