

with hand and head



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<https://www.apraktika.hu/en/polyurethane-silent-casting-resin-74>

Instructions for mixing ratios:

https://www.apraktika.hu/shop_ordered/20376/pic/datasheets/polyurethane-elastomer-mixing-ratios.pdf

SIL 74 Polyurethane Elastomer: Technical Data Sheet

This polyurethane elastomer system consisting of polyol and isocyanate components, hardens at room temperature and is suitable for manual processing.

The hardened polyurethane elastomer can be used in slightly flexible finished products, for replacement and repair of rubber parts of vibration dampers.

The main properties of hardened product:

- Easy to process
- Significant tear resistance
- Solvent free
- Fast curing,
- Convenient 15 minutes pot life



1. Instructions for use

1. Prepare the two components (resin / base and catalyst) and mix them separately. Weigh out the amounts of polyol and isocyanate components given in the table below.
2. Keep the mixing ratio exactly. The technical properties listed below are guaranteed only this case.
3. Do not leave unmixed components on the wall of the mixing bowl.
4. Stir until the color is homogeneous. The polyurethane resin can then be cast.

Crystallization can occur with both the isocyanate and the polyol component.

In this case, i.e. if the polyol component becomes inhomogeneous and the isocyanate becomes opaque, place in a heat treatment chamber and homogenize at 60 ° C.

The system is then reusable.

Ensure the components are mixed at least 18 ° C.

2. Important Recommendations

- Observe the general health and safety regulations
- Wear protective gloves
- Ensure adequate ventilation
- Wear safety goggles and suitable safe clothing



3. Chemical and Physical Properties

	Isocyanate	Polyol	Mixture
Mixing ratio (mass %)	Look at the instruction on https://www.apraktika.hu/shop_ordered/20376/pic/datasheets/polyurethane-elastomer-mixing-ratios.pdf		
Consistency	liquid	liquid	liquid
Coulor	amber	pink	pink
Viscosity	450	1500	1000
Density at 25 °C g/cm ³	1,21	1,22	1,25
Working time (pot life) at 25 °C			15
Hardness Shore A			74
Tensile Strength MPa			9
Elongation at break %			700
Tear strength kN/mm			31
BASHORE resilience			30
Operation temperature °C			-20 / 70
Glass transition temperature °C			< 0
Abrasion resistance (TABER)			40
Maximum casting thickness mm			100

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The cured finished product must not be classified as dangerous in accordance with Directive 88/379 / EEC and subsequent amendments. The hazards of the components can be seen in another document.

4. Shelf Life

The SIL 74 polyurethane elastomer resin is guaranteed for a period of 18 months if stored correctly at a temperature of between 5°- 27°C (41° - 80°F).

The advice given verbally, in writing or through demonstrations on the use of the products are based on our knowledge.

The use and application of the product by the user lie beyond the control of the company and are therefore the user's own responsibility.