



Characterize

- ✓ Elastic, Strong, High Details
- ✓ Amber, High tensile force
- ✓ Shore A 20
- ✓ Min. 1 mm to max. 60 mm castable.
- ✓ 28 minutes processing time
- ✓ Mixing ratio in weight: 100:50

Polurea 20 A+B – Flexible Polyurethane Casting Resin System

Polurea 20 A+B is a two-component polyurethane casting resin with a low hardness (Shore A 18–22), specifically developed for creating **stretchable, tear-resistant molds** and **flexible castings**. Thanks to its high elongation and excellent mechanical properties, this system is ideal for applications requiring both flexibility and durability.

☑ Key Features:

- **Two-component PU system** (A + B)
- **Hardness:** Shore A 18–22
- **Elongation at break:** up to 1000%
- **Tear resistance:** high
- **Color:** amber
- **Density:** 1.05 g/cm³
- **Linear shrinkage:** < 0.1%
- **Demolding time:** 15–18 hours at 25 °C
- **Pot life:** 28–34 minutes (100 g at 25 °C)

✂ Applications:

- Molds for **plaster, cement, and concrete**
- **Flexible parts** with low hardness
- **Demonstration models** and prototypes
- Art objects and decorative applications

🔧 Processing Tips:

1. **Shake or stir thoroughly** before use to evenly distribute fillers.
2. **Mixing ratio by weight:** A:B = 100:50 – use a precise scale!
3. **Process at room temperature** (20–25 °C) in a dry environment.
4. **Avoid wooden stirrers** – they may release moisture.
5. **Pour in thin layers** for larger volumes (>20 mm) to prevent overheating.
6. **Allow full cure** for optimal properties (after 7 days).

⚠ Safety Information:

- Contains diisocyanates – from August 2023, only to be used by trained professionals (EU regulation).
- **Wear protective gloves and goggles.**
- **Ensure proper ventilation** during processing.
- Avoid contact with skin and eyes.