

Zhermack HT 45 Translucent

Translucent platinum silicone for mould making and prototyping

**1:1**

Mix ratio (weight)

12 min

Pot life

2.5 h

Demould time at 23 °C

45

Hardness (Shore A)

DESCRIPTION

Pourable two-component addition-cure (platinum) silicone that cures at room temperature into a translucent rubber. For mould making, jewellery and rapid prototyping of small, detailed objects with thin walls. Suitable for plaster, coatings and acrylic resins; epoxy and polyester only with a release agent.



VIEW ONLINE

Scan the QR code or [click here](#) for prices, pack sizes and the SDS.

FEATURES

- ✓ Mix ratio 1:1 by weight
- ✓ Shore A 45
- ✓ Tear strength 15 N/mm
- ✓ Elongation at break 250 %
- ✓ Service temperature -40 to +200 °C

TECHNICAL DATA

Property	Unit	Value
Colour base / catalyst	-	Translucent
Density at 23 °C	g/cm ³	1.11
Mix ratio (weight)	A:B	1:1
Viscosity	mPa·s	8,000
Pot life at 23 °C	min	12
Demould time at 23 °C	h	2.5
Colour after curing	-	Translucent
Hardness after 24 h	Shore A	45
Tensile strength	N/mm ²	5
Elongation at break	%	250
Tear strength	N/mm	15
Service temperature	°C	-40 to +200

Typical values after 24 h vulcanisation at 23 °C. Not intended for use in preparing specifications.

PROCESSING

Shake base and catalyst separately. Weigh 1:1 with a separate spoon for each; up to 5 % deviation does not change the result. Mix vigorously until the colour is uniform, degas and pour from about 30 cm. Demould with compressed air if needed. Top-up pours are possible within 24 h.

POT LIFE

Measured from the start of mixing at 23 °C. At 40 °C pot life and demould time roughly halve; at 4 °C pot life doubles and curing takes about three times as long.

CASTING RESINS

Apply a release agent before casting epoxy or polyester resin to protect the mould, before every pour with aggressive resins. For polyurethane we recommend a different silicone.

CURING AND STORAGE

Addition-cure silicone: some petroleum jelly oils inhibit curing; test first if in doubt. 18 months at 5-27 °C; do not swap the caps.

SAFETY



Base and catalyst are not classified under CLP. According to the SDS, wear safety goggles, gloves and work clothing.

Consult the safety data sheet for full information.