

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 vulcanises at room temperature into a hard, translucent rubber. Suitable for mould making, jewellery and rapid prototyping of small, highly detailed objects with thin walls. The cured rubber is dimensionally stable, mechanically strong and retains its properties over the long term. Compatible with plaster, coatings, polyurethane and acrylic resins.



VIEW ONLINE

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

FEATURES

- ✓ Mix ratio 1:1 by weight
- ✓ Translucent: model visible through the mould
- ✓ Shore A 45: firm and dimensionally stable
- ✓ Tear strength 15 N/mm
- ✓ Service temperature -40 to +200 °C

TECHNICAL DATA

Property	Unit	Value
Colour base / catalyst	–	Translucent
Density base / catalyst 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 to remove sedimentation. Weigh 1:1, using a separate spoon for each component; a deviation of up to 5 % does not change the result. Mix vigorously until the colour is uniform, scraping the bottom and sides. Degas the mixture and pour from a height of about 30 cm where possible.

Demould after the demould time, using compressed air if needed and no sharp tools. Top-up pours are possible within 24 h: the new layer bonds to the first.

POT LIFE

Pot life starts when mixing begins 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.

CURE INHIBITION

This is an addition-cure silicone. Some petroleum jelly oils can inhibit curing. Work on clean, grease-free and dry surfaces and run a small test first if in doubt.

SHELF LIFE

18 months in closed containers at 5–27 °C. Do not swap the caps of base and catalyst.

SAFETY



Base and catalyst are not classified as hazardous under CLP. Avoid contact with skin and eyes and work in a well-ventilated area. According to the safety data sheet, wear safety goggles, gloves and work clothing. **Consult the safety data sheet for full information.**