

RTV 00-40

Addition Cure Silicone Rubber

Main features

- Improved mechanics
- Very good
- flowability
- Mixing ratio 1 : 1
- Low shore hardness

Applications

- Impression application in prosthetics
- Orthotic inlays
- Prosthetic liners
- Shoe insoles

Properties in the non-crosslinked state (approx. values)

		RTV 00-40 Part A	RTV 00-40 Part B
Colour		translucent	translucent
Mixing ratio	p.b.w.	100	100
Density (20 °C)	g/cm ³	1.03	1.03
Viscosity (20 °C)	mPa·s	3,200	3,500

Properties of the mixture and the cured product (approx. values)

Mixed viscosity	mPa·s		3,300
Pot life (1000g)	minutes		30
Curing time RT*	hours		24
Hardness (24h) RT 8 mm layer thickness	Shore 00	DIN 53505	40
Service temperature, briefly	°C		200
Tensile strength	MPa	DIN 53504	2
Elongation at tear	%	DIN 53504	480
Resistance to tear propagation	N/mm	ASTM D 624 B	10

* The vulcanization is temperature-dependent and is accelerated considerably by heat supply

RT = room temperature

Important Note: The platinum catalyst is in RTV 00-40 Part A

How to process the material

For the preparation of a formulation being ready for processing, add the required quantity of crosslinker to the rubber and stir the compound until it is homogeneous. See that as little air as possible gets into the compound while stirring.

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Compatibility with other materials

RTV 00-40 is well compatible with all common pattern materials such as wood, plaster, metals and plastics and provides perfect casts. Certain substances inhibit or decelerate the vulcanization of RTV 00-40, which can be noticed by tacky surfaces or surfaces containing bubbles. To these substances belong among other things condensation-crosslinking silicones, organic rubbers, plasticizers, amines, heavy-metal compounds and sulphurous substances. High air humidity and water may also lead to disturbances. Under unfavourable circumstances, it may happen that also surfaces having been in contact with the mentioned substances lead to vulcanization faults. The same applies to certain modelling materials. In case of doubt, we recommend carrying out pretrials on a small scale.

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Vulcanization

By vulcanization or cross-linking one understands the transition from liquid, castable silicone rubber to the tack-free, elastomeric state. It begins after addition of the crosslinker, and there are no cleavage products whatsoever produced during this process. At 20 - 25 °C, the vulcanization is terminated to a large extent after 24 hours. The vulcanization speed is temperature-dependent and can be accelerated considerably by heat supply.

Form of delivery

RTV 00-40 Part A	1 kg	5 kg	25 kg	200 kg	1000 kg
RTV 00-40 Part B	1 kg	5 kg	25 kg	200 kg	1000 kg

Storage

We recommend keeping the material in tightly closed original receptacles at temperatures of 20 - 25 °C. When duly stored, the material can be used within the shelf life indicated on the labels (the first 2 digits of the batch number indicate the week, the 3rd digit indicates the year).

Measure of precaution

With the aid of the current safety data sheets, which contain physical, ecological, toxicological and other data relating to safety, the user can inform himself on the safe handling and storage of the products.

Our technical service - in words, in writing or by trials - is given according to the current state of our knowledge. It does however not relieve the customer / user from the duty to check by himself if the products supplied by us are suitable for the intended processes and purposes. Application, use and processing of the products take place beyond our control possibilities and lie therefore exclusively in the area of responsibility of the processor. Any existing property rights of third parties are to be considered. We guarantee the perfect quality of our products in accordance with our general terms and conditions of business. When handling our products you have to observe the legal rules and the rules for the industrial hygiene. As for the rest, we refer to the corresponding safety data sheets.

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