

# NEUKASIL RTV 125

Silicone Rubber  
condensation-crosslinking

# altropol

## Main features

- high resistance to initial tearing and tear propagation
- good flowability
- can be made thixotropic
- one crosslinker each with a good resistance to styrene (C 125 PE) and a good resistance to polyurethane (C 125 PU)

## Applications

- mould making, artistic casting
- suitable for wax
- suitable for polyester, polyurethane and epoxy resins

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

		NEUKASIL RTV 125	NEUKASIL Crosslinker C 125 PE resistant to polyester	NEUKASIL Crosslinker C 125 PU resistant to polyurethane	NEUKASIL Thixotropic Agent SI - C
Colour		beige	amber	translucent	transparent
Mixing ratio	p.b.w.	100	5	5	0.1 – 1.5
Density (20°C)	g/cm <sup>3</sup>	1.24	0.95	0.95	1.0
Viscosity (20°C)	mPa·s	35,000	80	50	300

## Properties of the mixture (approx. values)

		NEUKASIL Crosslinker C 125 PE resistant to polyester	NEUKASIL Crosslinker C 125 PU resistant to polyurethane
Mixed viscosity	mPa·s	25,000	25,000
Pot life	(1000g) minutes	70	70

## Properties of the cured product (approx. values)

			NEUKASIL Crosslinker C 125 PE resistant to polyester	NEUKASIL Crosslinker C 125 PU resistant to polyurethane
Tack-free	hours		18	18
Hardness(24h)	Shore A	DIN 53505	24	24
Hardness (7d)	Shore A	DIN 53505	28	28
Service temperature, short-term	°C		180	180
Tensile strength	N/mm <sup>2</sup>	DIN 53504 S2	3.5	3.5
Elongation at break	%	DIN 53504 S2	800	650
Resistance to tear propagation	N/mm <sup>2</sup>	ASTM D 624 B	22	22

## 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. To obtain a bubble-free vulcanized material, we recommend evacuating the crosslinker-containing formulation before continuing the processing.

When the vacuum is created, the mixture increases in volume by 3 to 4 times of its original volume under formation of bubbles. The degassing process is finished when the bubbles have collapsed and the formulation has reobtained its original volume. Avoid a longer stay of the crosslinker-containing formulation in the vacuum as otherwise you run the risk that parts of the crosslinkers will be removed. Carefully cast the prepared material without enclosing bigger quantities of air again.

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## **Thixotropic adjustment**

By addition of the component NEUKASIL Thixotropic Agent SI-C, the silicone rubber can be made thixotropic for special applications, i. e. the compound is then no longer liquid and castable, but pasty, brushable. For this, add approx. 0.1 to 1.5 % of NEUKASIL Thixotropic Agent SI-C to the already mixed components NEUKASIL RTV 125 and crosslinker. The thixotropic effect already occurs after a short period of time.

When NEUKASIL RTV 125 is used as mould making material (production of negatives), there is no release agent required for demoulding. Should there still arise any problems, we recommend our NEUKADUR Release Agent N or NEUKADUR Release Spray P 6. For the production of multipart moulds and to avoid an adhesion of NEUKASIL RTV 125 to itself, use the same release agents. Treat the surface of the part already vulcanized with release agent, then cast the second part of the mould.

For release agents, please visit our homepage under <http://www.altropol.de/en/produkte/weitere-produkte/trennmittel>

## **Form of delivery**

NEUKASIL RTV 125	1.00 kg	5.00 kg	25.00 kg	200.00 kg
NEUKASIL Crosslinker C 125 PU	0.05 kg	0.25 kg	1.25 kg	5.00 kg
NEUKASIL Crosslinker C 125 PE	0.05 kg	0.25 kg	1.25 kg	5.00 kg
NEUKASIL Thixotropic Agent SI – C	0.01 kg	0.05 kg	0.20 kg	5.00 kg

## **Storage**

We recommend keeping the material in tightly closed original receptacles at temperatures of 15 - 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.

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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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• [www.altropol.de](http://www.altropol.de) •

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