

# NEUKASIL RTV 23

Silicone Rubber  
Addition-crosslinking

# altropol

## Main features

- variable hardness
- very good flowability
- high resistance to initial tearing and tear propagation
- variable pot lives

## Applications

- production of elastic moulds
- suitable for e.g. plaster, wax
- casting of electric component parts
- product for orthopaedics
- coating of tissues

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

		NEUKASIL RTV 23	NEUKASIL Crosslinker A 3	NEUKASIL Crosslinker A 18
Colour		colourless	colourless	colourless or blue
Mixing ratio	p.b.w.	100	6.5	10
Density (20 °C)	g/cm <sup>3</sup>	1.10	0.98	0.95
Viscosity (25 °C)	mPa·s	45,000	60	150

## Properties of the mixture (approx. values)

Mixed viscosity	mPas		30,000	25,000
Pot life	(1000g) minutes		60	90
tack-free	(RT) hours		24	24
Hardness	Shore A		20	25
Service temperature	°C		160	160
Tensile strength	N/mm <sup>2</sup>		3.5	4.5
Elongation at break	%		400	300
Resistance to tear propagation	N/mm <sup>2</sup>		>8	>10
linear shrinkage	%		0.1	0.1
Resistivity	Ω cm		10 <sup>15</sup>	10 <sup>15</sup>
Dielectric strength	KV/mm		22	22
Dielectric constant	ε r		3.0	3.0
Dissipation factor	δ 60 Hz		0.008	0.008

## How to process the material

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 preparation before continuing the processing. When the vacuum is created, the mixture may increase in volume by 3 to 4 times of its original volume under formation of bubbles. The process is finished when the bubbles have collapsed and the preparation has reobtained its original volume. Carefully pour the prepared material over the object to be moulded.

Whenever working with addition-crosslinking silicone rubbers, take care that the receptacles used are clean and dry. Furthermore, the surface of the object to be moulded should be dry and free from dirt. Certain substances may inhibit or retard the crosslinking of addition-crosslinking silicone rubbers. Such substances are among others condensation-crosslinking silicones, organic rubbers, plasticizers, amines, heavy-metal compounds and sulphurous compounds. Under unfavourable circumstances, it may happen that also surfaces having been in contact with the mentioned substances as well as certain moulding materials lead to vulcanization faults.

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When NEUKASIL RTV 23 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 SE New or NEUKADUR Release Spray P 6. For the production of multipart moulds and to avoid an adhesion of NEUKASIL RTV 23 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>

The vulcanization of NEUKASIL RTV 23 begins after addition of the crosslinkers, 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**

NEUKASIL RTV 23	1 kg*	5 kg	25 kg
NEUKASIL Crosslinker A 3	0,065 kg*	0,325 kg	1,625 kg
NEUKASIL Crosslinker A 18	0,1 kg*	0,5 kg	2,5 kg

\*= minimum order quantity = 6 working packages

### **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.

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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) •

• Altropol Kunststoff GmbH • Rudolf-Diesel-Straße 9 - 13 • D-23617 Stockelsdorf • Tel. +49 451-499 60-0 •  
• Fax. +49 451-499 60-20 • E - Mail: [info@altropol.de](mailto:info@altropol.de) •