

## NEUKASIL RTV 25

Silicone Rubber  
addition-crosslinking

# altropol

### Main features

- very good flowability
- high Shore A-hardness

### Applications

- general mould making
- coating of woven fabrics
- material for embedding and electrical insulation
- coating of conveyor belts

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

				NEUKASIL RTV 25	NEUKASIL Crosslinker A 1
Colour				white	blue
Density 20 °C	g/cm <sup>3</sup>			1.20	1.10
Viscosity 20°C	mPas			14,000	5,000

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

Mixing ratio	p.b.w.			100	10
Mixed viscosity	mPas				11,000
Pot life	(1000g) minutes				120
Curing time *	hours				24
Hardness (24h)	Shore A	DIN 53505			55
Hardness (7d)	Shore A	DIN 53505			58
Service temperature/ short-term	°C				240
Tensile strength	N/mm <sup>2</sup>	DIN 53504 S2			5.0
Elongation at break	%	DIN 53504 S2			250
Resistance to tear propagation	N/mm	ASTM 624 B			5.0
linear shrinkage	%				0,1
Resistivity	Ω cm	DIN 53482			10 <sup>15</sup>
Dielectric strength	KV/mm	DIN 53481			22
Dielectric constant	ε r	DIN 53483			3.0
Dissipation factor	δ 60 Hz	DIN 53483			0.008

\* The vulcanization is temperature-dependent, and it is accelerated considerably by heat supply.

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### How to process the material

Whenever working with silicone rubber RTV 25, take care that the receptacles used are clean and dry. The material has to be **homogenized thoroughly before use**.

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 homogenous. 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. Certain substances may inhibit or decelerate the crosslinking of addition-crosslinking silicone rubbers. Such substances are among other things condensation-crosslinking silicones, organic rubbers, plasticizers, amines, heavy-metal combinations and sulphurous compounds.

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 in the vacuum as otherwise you run the risk that parts of the crosslinker are removed. Then carefully cast the material having been prepared this way without enclosing bigger quantities of air again.

When NEUKASIL RTV 25 is used as mould making material (production of negatives), there is no release agent required for demoulding. Should there still be problems, we recommend the use of 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 25 to itself, use the same release agents. Treat the surface of the part having already been vulcanized with release agent. After this, cast the second part of the mould.

### Form of delivery

NEUKASIL RTV 25	1, 5, 25 kg
NEUKASIL Crosslinker A 1 blue	100 g, 500 g, 2.5 kg

### Storage

The material should be kept in tightly closed original receptacles at temperatures of 15 - 25 °C. When duly stored, the materials can be used within the shelf life indicated on the labels. The crosslinkers may produce a slight sediment in the receptacle which does however not affect the usability.

### Measure of precaution

Users should make use of the current safety data sheets, which contain physical, ecological, toxicological and other data relating to safety, to inform themselves on the safe handling and storage of the products.

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

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