

# NEUKASIL RTV 26

Silicone Rubber  
addition crosslinking

# altropol

## Main features

- low hardness
- very good flowability
- good resistance to initial tearing and tear propagation

## Applications

- production of products for orthopaedics
- suitable for polyester, epoxides, wax
- casting of electrical component parts
- production of parts, prototypes

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

		NEUKASIL RTV 26	NEUKASIL crosslinker A 7
Colour		white	blue
Mixing ratio	p.b.w.	100	40
Density (20 °C)	g/cm <sup>3</sup>	1.2	0.96
Viscosity (25 °C)	mPa·s	55,000	100

## Properties of the mixture (approx. values)

Mixed viscosity (25 °C)	mPa·s		7,000
Pot life (RT, 100 g)	minutes		200
Tack-free	hours		24
Hardness	Shore A	DIN 53505	7
Service temperature	°C		160

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

Tensile strength	N/mm <sup>2</sup>	DIN 53504	2
Elongation at break	%	DIN 53455	450
Resistance to tear propagation	N/mm	ASTM D 624 B	5.0
Linear dimensional change	%		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
Dissipation factor	tan δ 60 HZ	DIN 53483	0.008

\*RT = room temperature

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

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 cast should be dry and free from dirt.

Certain substances may inhibit or decelerate the vulcanization of additions-crosslinking silicone rubbers. To these substances belong among other things condensation-crosslinking silicones, organic rubbers, plasticizers, amines, heavy-metal compounds and sulphurous substances.

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.

When NEUKASIL RTV 26 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 26 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.

The vulcanization of NEUKASIL RTV 26 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.

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

**Form of delivery**

NEUKASIL RTV 26	1 kg	5 kg	25 kg
NEUKASIL crosslinker A 7 blue	0.1 kg	0.5 kg	2.5 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.

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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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