

NEUKASIL RTV 26

Silicone Rubber
addition-crosslinking

altropol

Main features

- variable hardness
- very good flow properties
- high resistance to initial tearing and tear propagation

Applications

- production of elastic moulds
- suitable for polyester, gypsum, wax
- casting of electrical components
- production of orthopaedics
- coating of tissues

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

		NEUKASIL RTV 26	NEUKASIL crosslinker A 14	NEUKASIL crosslinker A 18
Colour		white	colourless	colourless
Mixing ration	p.b.w.	100	30	10
Density (20 °C)	g/cm ³	1.2	0.96	0.95
Viscosity (20 °C)	mPas	55,000	120	150

Properties of the mixture (approx. values)

Mixed viscosity	mPa·s		15,000	25,000
Tack-free (RT)	hours		24	24
Pot life	(1000g) min.		120	90

Mechanical values of the cured product (approx. values)

Hardness	Shore A	DIN 53505	15	25
Service temperature	°C		160	160
Tensile strength	MPa	DIN 53504	3	4,5
Elongation at break	%	DIN 53504	350	300
Resistance to tear propagation	N/mm	ASTM D 624 B	>5	>10
linear shrinkage	%		0.1	0.1
Resistivity	Ω cm	DIN 53482	10 ¹⁵	10 ¹⁵
Dielectric strength	KV/mm	DIN 53481	22	22
Dielectric constant	ε r	DIN 53483	3	3
Dissipation factor	δ 60 Hz	DIN 53483	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 evacuation 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. The 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 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 other 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 mentioned substances lead to vulcanization faults. The same applies to certain modelling materials.

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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.

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

Thixotropic adjustment

By addition of the component NEUKASIL SN 200, 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. 0.5 – 1.0 % of the NEUKASIL SN 200 to the components NEUKASIL RTV 26 and NEUKASIL crosslinker A 14 already mixed. The thixotropic effect already occurs after a short period of time.

The vulcanization of NEUKASIL RTV 26 begins after addition of the crosslinkers, and there is 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 26	1.00 kg	5.00 kg	25.00 kg
NEUKASIL crosslinker A 14	0.30 kg	0.50 kg	2.50 kg
NEUKASIL crosslinker A 18	0.10 kg	0.50 kg	2.50 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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