

NEUKASIL RTV 14
Silicone Rubber
condensation-crosslinking

altropol

Main features

- brushable paste
- variable pot lives

Applications

- coating and sealing material
- mould making
- suitable for polyester, epoxides, wax

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

		NEUKASIL RTV 14	NEUKASIL Crosslinker C 1	NEUKASIL Crosslinker C 5
Colour		white	colourless	colourless
Mixing ratio	p.b.w.	100	3	3
Density 20 °C	g/cm ³	1.2	0.9	1.0
Viscosity 20 °C	mPa·s	pasty	20	25

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

Mixed viscosity	mPa·s		450,000	450,000
Pot life (RT) (1000 g)	minutes		45	25
Tackfree depending on layer thickness	hours		24	15
Shore A-hardness	points	DIN 53505	45	45
Service temperature under air access, short-term	max °C		230	230
Tensile strength	N/mm ²	DIN 53504	2.5	2.5
Elongation at tear	%	DIN 53504	250	250
Resistance to tear propagation	N/mm	ASTM D 624 B	5.5	5.5
Resistivity	Ω cm	DIN 53482	5 • 10 ¹³	5 • 10 ¹³
Dielectric strength	KV/mm	DIN 53481	22	22
Dielectric constant	ε at 25°C	DIN 53483	50 Hz - 3.1 1 KHz - 3.0 1 MHz - 3.0 3 GHz - 2.9	50 Hz - 3.1 1 KHz - 3.0 1 MHz - 3.0 3 GHz - 2.9
Dissipation factor	tan δ at 25°C	DIN 53483	50 Hz - 0.020 1 KHz - 0.010 1 MHz - 0.004 3 GHz - 0.006	50 Hz - 0.020 1 KHz - 0.010 1 MHz - 0.004 3 GHz - 0.006
Arc resistance	KA		3c	3c
Test solution A. and F.	KC		>600	>600

(RT = room temperature)

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. Carefully spread the prepared material without enclosing bigger quantities of air again.

When NEUKASIL RTV 14 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 14 to itself, use the same release agents. Treat the surface of the part already vulcanized with release agent, then brush the second part of the mould.

For release agents, please visit our homepage under <http://www.altropol.de/en/and-more/release-agents.html>

Demoulding of parts made from NEUKASIL RTV 14 should be effected after 20 to 24 hours only. To complete the crosslinking process to a large extent, the moulds made from NEUKASIL RTV 14 should be kept in the air for approx. 48 hours prior to the first use. These measures will help to improve the mechanical properties of the rubber and prolong the service life of the mould.

Form of delivery

NEUKASIL RTV 14	1.00 kg	5.00 kg	25.00 kg	50.00 kg
NEUKASIL Crosslinker C 1	0.03 kg	0.15 kg	0.75 kg	
NEUKASIL Crosslinker C 5	0.03 kg	0.15 kg	0.75 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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