

NEUKASIL RTV 28

Silicone Rubber addition-crosslinking

altropol

Main features

- high resistance to initial tearing and tear propagation
- good flowability
- can be made thixotropic
- Shore A approx. 27 (crosslinker A 141)
- Shore A approx. 33 (crosslinker A 140)

Applications

- general mould making
- fabrication of products for orthopaedics
- coating of woven fabrics
- embedding and insulating material for electrical applications

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

			NEUKASIL RTV 28 NEW	NEUKASIL Vernetzer A 140	NEUKASIL Vernetzer A 141
Colour			white	beige	reddish brown
Density 20 °C	g/cm ³		1.10	1.10	1.10
Viscosity 20°C	mPas		20,000	25	50

Properties of the mixture (approx. values)

Mixing ratio	p.b.w.		100	10	20
Mixed viscosity	mPas			8,000	6,000
Pot life	(1000g) Minutes			60	70
Curing time	Hours			24	24
Hardness (24h) *	Shore A	DIN 53505		27	20
Hardness (7d) *	Shore A	DIN 53505		33	27
Servie temperature briefly	°C			200	200
Tensile strength	N/mm ²	DIN 53504 S2		5.8	work in progress
Elongation at break	%	DIN 53504 S2		1000	work in progress
Resistance to tear propagation	N/mm	ASTM 624 B		>17	work in progress

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

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. To obtain a vulcanized material free of bubbles, we recommend evacuating the formulation, which contains crosslinker, before continuing the processing.

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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-containing formulation in the vacuum as otherwise you run the risk that parts of the crosslinkers will be removed. Carefully cast the prepared material without enclosing bigger quantities of air again.

When NEUKASIL RTV 28 NEW 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 28 NEW 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.

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 SN 200 to the components RTV 28 NEW and crosslinker already mixed. The thixotropy effect already occurs after a short period of time.

Form of delivery

NEUKASIL RTV 28 NEW	1; 5 ; and 25 kg
NEUKASIL Crosslinker A 140 beige	0.1; 0.5 ; and 2.5 kg
NEUKASIL Crosslinker A 141 reddish brown	0.1; 0.5 ; and 2.5 kg
NEUKASIL SN 200	0.01; 0.05 ; 0.2 and 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. If stored for a longer period of time, the crosslinkers 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.

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