

NEUKASIL RTV 230-7 AS

Silicone Rubber
addition-crosslinking

altropol

Main features

- addition-crosslinking
- antistatic

Applications

- production of antistatic finished parts

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

		NEUKASIL RTV 230-7 AS Comp. A (Crosslinker)	NEUKASIL RTV 230-7 AS Comp. B (platinum component)
Colour		grey	clear
Mixing ratio	p.b.w.	100	10
Density (20 °C)	g/cm ³	1.1	1
Viscosity (25 °C)	mPa·s	13,000	6,000

Properties of the mixture (approx. values)

Mixed viscosity (25 °C)	mPa·s		10,000
Pot life (RT) (100 g)	minutes		30
Pot life (50 °C, 100 g)	minutes		12
Curing time (45°C / 50°C) Layer 1.5 mm (has started to cure)	minutes		15 / 12
Curing time (45°C / 50°C) Layer 1.5 mm (through-cured)	minutes		20 / 16
Curing time (45°C / 50°C) Layer 1.5 mm (tack-free)	minutes		35 / 24
Hardness (80°C) after 30 min / 8 mm	Shore A	DIN 53505	40
Curing time (RT)	hours		24
Hardness (24h, RT)	Shore A	DIN 53505	40
Hardness (7d, RT)	Shore A	DIN 53505	41
Surface resistance	$\Omega \cdot \text{cm}^2$	DIN 61340-2-3	10 ⁹

Mechanical values of the cured product (approx. values)

Tensile strength	MPa	DIN 53504	4,5
Elongation at break	%	DIN 53504	250
Resistance to tear propagation	N/mm	ASTM D 624 B	13
Linear dimensional change	%		<0.1

*RT = room temperature

The platinum catalyst is in NEUKASIL RTV 230-7 AS Comp. B

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.

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When NEUKASIL RTV 230-7 AS 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 230-7 AS 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>

Compatibility with other materials

NEUKASIL RTV 230-7 AS is well compatible with all common pattern materials such as wood, plaster, metals and plastics and provides perfect casts.

Certain substances inhibit or decelerate the vulcanization of NEUKASIL RTV 230-7 AS which can be noticed by tacky surfaces or surfaces containing bubbles. To these substances belong among other things condensation-crosslinking silicones, organic rubbers, plasticizers, amines, heavy-metal compounds and sulphurous substances. High air humidity and water may also lead to disturbances. 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. In case of doubt, we recommend carrying out pretrials on a small scale.

NEUKASIL RTV is the designation for 2-component silicone rubber systems of the ALTROPOL KUNSTSTOFF GmbH vulcanizing at room temperature.

Form of delivery

NEUKASIL RTV 230-7 AS Comp. A (crosslinker)	5 kg	25 kg	200 kg
NEUKASIL RTV 230-7 AS Comp. B (platinum component)	0.5 kg	2.5 kg	20 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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• www.altropol.de •

• Altropol Kunststoff GmbH • Rudolf-Diesel-Straße 9 - 13 • D-23617 Stockelsdorf • Tel. +49 451-499 60-0 •
• Fax. +49 451-499 60-20 • E - Mail: info@altropol.de •