

ELASTOSIL® N10

RTV-1 SILICONE RUBBER / ADHESIVE AND SEALANT

Product description

ELASTOSIL® N10 is a flowable silicone sealant which cures at room temperature under influence of atmospheric moisture.

Special features

- neutral-curing system (oxime)
- low viscosity, no thixotropy
- solventfree
- excellent primerless adhesion to many substrates

Application

Multipurpose grade for bonding, sealing and potting e.g in electronic applications.

Processing

ELASTOSIL® N10 is a one-part room temperature vulcanizing sealant that cures to a flexible silicone rubber on exposure to atmospheric moisture. Higher humidity accelerates skin formation and curing as well as elevated temperature. However temperature shall not exceed 50°C during cure. During the crosslinking process, some oxime by-product is released. After about 25 minutes a dry skin is formed. After formation of a sufficiently thick skin, glued parts may be handled without destruction. If removing of silicone rubber from machines or dispensing equipment is necessary, white spirit is recommended as a solvent. However, cleaning should take place before the rubber is fully cured.

Afterwards only the use of mechanical forces in combination with a swelling solvent or the use of high temperatures of approximately 100 °C will help to remove sealant residues. ELASTOSIL® N10 shows good primerless adhesion to many substrates. We recommend to run preliminary tests to optimize conditions for the particular application.

Storage

The 'Best use before end' date of each batch is shown on the product label.

Storage beyond the date specified on the label does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.

Safety notes

During vulcanization of ELASTOSIL® N10, a total of 4% by weight of an oxime is being split off. These vapours should not be inhaled for long periods or in high concentration. Work areas should therefore be well ventilated. Contact of unvulcanized silicone rubber with eyes and mucous membranes must be avoided as this would cause irritation. However if it does happen, rinse the affected area thoroughly with water.

Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are available on request from WACKER subsidiaries or may be printed via WACKER web site <http://www.wacker.com>.

Product data

Typical general characteristics	Inspection Method	Value
Product data (uncured)		
Color		colorless
Density at 23 °C	DIN 53217	approx. 1,02 g/cm ³
Viscosity, dynamic at 23 °C	Brookfield	8000 mPa.s
Skin-forming time, 23 °C, 50 % RH		25 min
Product data (cured)		
Density	ISO 2781	1,03 g/cm ³
Hardness Shore A	ISO 868	25
Elongation at break	ISO 37	200 %
Tensile strength	ISO 37	1,5 N/mm ²
Tear strength	ASTM D 624 B	2,0 N/mm

Curing conditions: 2 mm, 14 days storage at 23 °C and 50 % RH.

These figures are only intended as a guide and should not be used in preparing specifications.

The data presented in this medium are in accordance with the present state of our knowledge but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this medium should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. The information provided by us does not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and, if necessary, clarifying the position. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the product for a particular purpose.

The management system has been certified according to DIN EN ISO 9001 and DIN EN ISO 14001

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For technical, quality, or product safety questions, please contact:

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