

ELASTOSIL® N2189

RTV-1 SILICONE RUBBER / ADHESIVE

Product description

ELASTOSIL® N2189 is a non-slump, one-part silicone sealant, which cures at room temperature under influence of moisture.

Special features

- neutral curing system (alkoxy)
- short skin forming time
- non-slump
- primerless adhesion to many substrates
- excellent adhesion to cast magnesium
- good resistance against mineral oil and coolant
- good heat stability
- flame retardant: meets UL94 V-0

Application

- general-purpose adhesive for technical applications
- cipg- and figp-applications e.g. for oil pans

Processing

ELASTOSIL® N2189 is a one-part room temperature vulcanizing sealant that cures to a flexible silicone rubber on exposure to moisture. During the curing process a small amount of an alcohol is released. Usually only minor volume shrinkage is observed. After about 15 to 25 min a skin of cured material is formed at the surface. The curing rate strongly depends on temperature and atmospheric humidity in the surrounding

After completion of the vulcanization process the product may be continuously exposed to temperatures as high as 180 °C (356 °F) without damage.

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® N2189 shows good primerless adhesion to many substrates. We recommend to run preliminary tests to optimize conditions for the particular application.

Advice for application as FIGP- or CIPG-sealant is given in our leaflet "Modern Sealing Techniques with Silicone Rubber"; general instructions are given in our leaflet "ELASTOSIL® RTV-1 Silicone Rubber".

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

ELASTOSIL® N2189 releases during cure a total 3 % alcohol. These vapors should not be inhaled for long periods or in high concentrations. Hence good ventilation of the works place is necessary.

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		black
Density at 25 °C	ISO 2811	1,20 g/cm ³
Extrusion Rate (3 mm nozzle, pressure 0.21 N/mm ² , 23 °C)		10 g/10s
Skin-forming time, 23 °C, 50 % RH		15 min
Product data (cured)		
Color		black
Density at 25°C	ISO 2781	1,23 g/cm ³
Hardness Shore A	ISO 868	45
Elongation at break	ISO 37	250 %
Tensile strength	ISO 37	2,50 N/mm ²

2mm, 7 d storage at 23 °C, 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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