ELASTOSIL® N 2199

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Moisture Curing Silicone Rubber (RTV-1)

ELASTOSIL® N 2199 is a one-part, ready-to-use, acid- and sovent-free, non-corrosive RTV-1 nonslumping paste that cures at room temperature to a permanently flexible silicone rubber on exposure to atmospheric moisture.
It shows excellent adhesion to a broad variety of substrates

Properties

- meets the physical repuirements of MIL-A-46146, Group I, Type I
- excellent mechanical properties
- Recommended service temperature from -45 °C to +180 °C

Specific features

- Condensation-curing
- MIL-A 46106 grade
- Non-slump
- One-component

Technical data

Properties Uncured

Property	Condition	Value	Method
Color	-	transparent	-
Density	23 °C	1.02 g/cm^3	DIN EN ISO 1183-1 A
Viscosity, dynamic D = 0,5 1/s	25 °C	950000 mPa·s	DIN EN ISO 3219
Viscosity, dynamic D = 25 1/s	25 °C	100000 mPa·s	DIN EN ISO 3219
Extrusion rate - mass flow (nozzle diameter: 3 mm (0. 12))	0.21 N/mm^2 | 23 °C	8 g/10s	-
Skin forming time	23 °C | 50 % r.h	15 min	-

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

Properties Cured

Curing Conditions: 14 days at 23 °C and 50 % rel. humidity, 2 mm sheet, no post-curing

Property	Condition	Value	Method
Density	23 °C	1.06 g/cm^3	DIN EN ISO 1183-1 A
Hardness Shore A	-	30	DIN ISO 48-4
Tensile strength[(1)]	-	2.5 N/mm^2	ISO 37
Elongation at break	-	400 %	ISO 37
100 % modulus	23 °C	0.6 N/mm^2	ISO 37

[1]Type 3 / 23°C / 2mm

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Applications

- Appliances Industry
- Automotive Electronics
- Automotive, Aerospace & Railway
- Bonding & Sealing
- Electrical Components

- Formed-In-Place-Gaskets (Wet Type)
- Industrial Assembly
- Measurement & Control, Sensor Technology
- Ready-to-Use Silicone Sealants - General Applications

Application details

Multipurpose grade for sealing and bonding for technical applications

Processing

ELASTOSIL® N 2199 is a one-part room temperature vulcanizing sealant that cures to a flexible silicone rubber on exposure to water vapor in the air. The curing rate strongly depends on temperature and atmospheric humidity in the surrounding. During the curing process a small amount of an alcohol is released.
After completion of the vulcanization process the product may be continously exposed to temperatures as high as 150 °C (302°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® N 2199 shows good primerless adhesion to many substrates. We recommend to run preliminary tests to optimize conditions for the particular application.

Detailed processing instructions are given in our brochure “ROOM TEMPERATURE VULCANIZING (RTV) SILICONES - MATERIAL AND PROCESSING GUIDELINES

Packaging and storage

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

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.

QR Code ELASTOSIL® N 2199

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

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