

ELASTOSIL® E 385

RTV-1 Silicone Rubber / Coating

Characteristics

ELASTOSIL® E 385 is a low viscous, solvent-borne, one-part silicone rubber, which cures at room temperature under the influence of atmospheric moisture.

Special characteristics

- Acetic acid-curing system
- Low viscosity, sprayable
- Contains toluene
- Excellent primerless adhesion to many substrates

Application

- Dipping
- Spraying
- Encapsulation
- Coating

Processing

ELASTOSIL E 385 is a one-part room temperature vulcanizing sealant that cures to a flexible silicone rubber on exposure to moisture in the air. For this reason the curing rate strongly depends on temperature and on atmospheric humidity in the surrounding. During the curing process a small amount of acetic acid is released. Due to the solvent content, shrinkage upon cure has to be considered.

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® E 385 shows good primerless adhesion to many substrates. We recommend to run preliminary tests to optimize conditions for the particular application.

Product data (uncured)

Property	Test method	Unit	Value
Color			Transparent
Density at 23 °C	ISO 2811	[g/cm ³]	0.94
Viscosity at 23 °C	ISO 3219	[mPa s]	300
Solvent content (toluene)		[%]	60
Shrinkage during vulcanization		[%]	65
Skin-forming time, 23 °C, 50 % RH		[min]	10
Curing time, 23 °C, 50 % RH		[h/mm]	12 - 24

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

Product data (cured)¹⁾

Property	Test method	Unit	Value
Color			Transparent
Density at 23 °C, in water	ISO 2781	[g/cm ³]	1.09
Hardness Shore A	ISO 868		35
Elongation at break	ISO 37	[%]	400
Tensile strength	ISO 37	[N/mm ²]	4.5
Tear strength	ASTM D 624	[N/mm]	15.0

¹⁾ 2mm, 14 d storage at 23 °C, 50 % RH

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Storage

ELASTOSIL® E 385 has a shelf life of at least 6 months when stored between 5 °C and 25 °C in the originally sealed container. The 'Best use before end' date of each batch appears 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 information

ELASTOSIL® E 385 releases during cure a total of about 4 % acetic acid and 60 % toluene on curing. These vapours should not be inhaled for long periods or in high concentrations. Hence good ventilation of the workplace is necessary.

Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are available on request from Wacker subsidiaries.

The data presented in this leaflet 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 leaflet 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 recommendations do 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 products for a particular purpose.

The management system has been certified according to DIN EN ISO 9001 and DIN EN ISO 14001. The Business Unit Elastomers of the Division Silicones is ISO/TS 16949 certified.

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