

ELASTOSIL® A316

Moisture Curing Silicone Rubber (RTV-1)

ELASTOSIL® A316 is a free flowable, solvent-based RTV-1 silicone dispersion. It cures at room temperature or elevated temperature by reaction with air humidity to a flexible silicone coating. During cure it splits off an organic amine.

Properties

- ready-to-use, one-component material
- short skin-over time
- solvent based
- good adhesion on different substrates
- excellent heat resistance

Technical data

Properties Uncured

Property	Condition	Value	Method
Color	-	colourless	-
Density	-	0.89 g/cm ³	DIN EN ISO 2811-1
Flash point	-	approx. 12 °C	ISO 13736
Ignition temperature	-	260 °C	EN 14522
Skin forming time	23.0 °C 50.0 % r.h	3.0 min	-
Solvent ⁽¹⁾	-	40.0 %	-
Spreading of 2 cm ³	-	5.0 - 7.0 cm	-
Viscosity, dynamic	-	300 - 600 mPa·s	-

¹b.w.

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

Properties Cured

Property	Condition	Value	Method
Density	23.0 °C	0.97 g/cm ³	DIN EN ISO 1183-1 A
Hardness Shore A	-	15	DIN ISO 48-4
Tensile strength	-	0.8 N/mm ²	ISO 37 type 1
Elongation at break	-	200 %	ISO 37 type 1

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All the information provided is in accordance with the present state of our knowledge. Nonetheless, we disclaim any warranty or liability whatsoever and reserve the right, at any time, to effect technical alterations. The information provided, as well as the product's fitness for an intended application, should be checked by the buyer in preliminary trials. Contractual terms and conditions always take precedence. This disclaimer of warranty and liability also applies particularly in foreign countries with respect to third parties' rights.

Application details

ELASTOSIL® A316 can be applied by dipping, spraying, brushing or coating. Thinner coatings can be obtained by addition of solvents (e.g. toluene, white spirit), thicker coatings can be realised by multiple step coating. ELASTOSIL® A316 contains about 40% of solvent (b.w.) therefore suitable equipment has to be used and precaution measures due to the solvent vapours have to be taken. A volume shrinkage of slightly above 40% has to be considered. ELASTOSIL® A316 is a one-part room temperature curing coating therefore the curing rate depends on temperature and on atmospheric humidity. The curing rate can be accelerated by heat exposure or exposure to carbon dioxide concentration above 1% p.b.v. Uncured or partially cured silicone can be removed by help of organic solvents such as alipatic or aromatic hydrocarbon cleaning should take place before the rubber is fully cured. Once completely cured, only mechanical removal supported by prior solvent swell is possible. Swelling can be accelerated by elevated temperature. We recommend running preliminary tests to optimize conditions for the particular application. Comprehensive instructions are given in our leaflet "ELASTOSIL® RTV-1 Silicone Rubber". - Protective coating against moisture and environmental influence - thin film coating for sealing applications

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

ELASTOSIL® A316 releases a total of about 4 % amine and 40 % white spirit during 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 or may be printed via WACKER web site <http://www.wacker.com>.

QR Code ELASTOSIL® A316



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

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