

ELASTOSIL[®] E4



Moisture Curing Silicone Rubber (RTV-1)

ELASTOSIL[®] E4 is a non-slump, acetoxy-cure one-component silicone rubber, which cures at room temperature under the influence of atmospheric moisture.

Properties

- acetoxy-curing system
- cured rubber with low Shore A hardness
- excellent primerless adhesion to many substrates
- good heat stability: permanent temperatures up to 180°C and peak temperatures up to 200°C

Special features

- General purpose
- Good adhesion to metals, glass and ceramics
- Good heat stability
- Non-slump

Technical data

Properties Uncured

Property	Condition	Value	Method
Skin formation time ⁽¹⁾	-	20 min	-
Viscosity dynamic	23 °C	non-slump	-
Color	-	transparent	-
Curing time	23 °C 50 % r.h.	12 h/mm	-
Density	20 °C	1.01 g/cm ³	DIN 53217

¹at 23 °C / 50 % r.h.

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

Properties Cured

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

Property	Condition	Value	Method
Elongation at break	-	750 %	DIN 53504 S1 / ISO 37
Tensile strength	-	2 N/mm ²	DIN 53504 S1 / ISO 37
Hardness Shore A	-	15	DIN 53 505 / ISO 868
Density in water	23 °C	1.02 g/cm ³	DIN EN ISO 1183-1 / ISO 2781
Color	-	transparent	-
Tear strength	-	7.3 N/mm	ASTM D 624

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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.

Applications

- Formed-In-Place-Gaskets (Wet Type)
- Cured-In-Place-Gaskets (Dry Type)

Application details

Multipurpose sealant and adhesive where low hardness/low modulus is needed for high movement capability

Processing

ELASTOSIL® E4 shows good primerless adhesion to many substrates. We recommend running 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

During vulcanization of ELASTOSIL® E4, a total of 3% by weight of acetic acid is 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>.

QR Code ELASTOSIL® E4



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

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