

ELASTOSIL[®] E14 Red



Moisture Curing Silicone Rubber (RTV-1)

ELASTOSIL[®] E14 Red is a non-sag acetoxy-cure silicone rubber, which cures at room temperature under the influence of atmospheric moisture.

It shows excellent primerless adhesion to many substrates and outstanding heat stability even in long term exposure

Properties

- meets the physical requirements of MIL-A-46106, Group I, Type I and Group III, Type I
- excellent heat stability: long term 200°C, peak temperature up to 250°C

Special features

- Broad adhesion profile
- Good adhesion to metals, glass and ceramics
- Heat resistant
- MIL-A 46106 grade
- Non-slump

Technical data

Properties Uncured

Property	Condition	Value	Method
Viscosity D = 0.5 1/s	23 °C	1000000	ISO 3219
Viscosity D = 25 1/s	23 °C	140000	ISO 3219
Color	-	red	-
Curing time	23 °C 50 % r.h	12 h/mm	-
Density	20 °C	1.15 g/cm ³	DIN 53479
Skin forming time	23 °C 50 % r.h	15 - 20 min	-

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

Properties Cured

2 mm, 14 days storage at 20 °C, 50 % RH

Property	Condition	Value	Method
Elongation at break	-	400 %	DIN 53504 S1 / ISO 37
Tensile strength	-	2.5 N/mm ²	DIN 53504 S1 / ISO 37
Hardness Shore A	-	32	DIN 53 505 / ISO 868
Density in water	23 °C	1.18 g/cm ³	DIN EN ISO 1183-1 / ISO 2781
Color	-	red	-
Tear strength	-	7 N/mm	ASTM D 624

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

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

- Small Appliances
- Heating, Ventilation, Air Conditioning (HVAC)
- Small Appliances
- Formed-In-Place-Gaskets (Wet Type)

Application details

High temperature resistant grade for sealing and bonding

Processing

ELASTOSIL® E14 Red 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® E14, 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.

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® E14 Red



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

Wacker Chemie AG, Hanns-Seidel-Platz 4, 81737 Munich, Germany
info@wacker.com, www.wacker.com

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.