

ELASTOSIL[®] E10 ROT



Moisture Curing Silicone Rubber (RTV-1)

ELASTOSIL[®] E10 ROT is a one-component acetoxy-cure silicone rubber with low viscosity, which cures at room temperature under the influence of atmospheric moisture.

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

Properties

- Recommended service temperature from -45 °C to +230 °C
- max. recommended short term peak temperature exposure 250°C
- non-thixotropic

Specific features

- Coating
- Flowable
- Good adhesion to metals, glass and ceramics
- Heat resistant
- Low viscosity
- One-component
- Ready to use
- Solvent-free

Technical data

Properties Uncured

Property	Condition	Value	Method
Color	-	red	-
Density in water	23 °C	1.10 g/cm ³	DIN EN ISO 2811
Viscosity D = 0,5 1/s	25 °C	9000	-
Viscosity D = 25 1/s	25 °C	6500	ISO 3219
Skin formation time ⁽¹⁾	-	10 - 15 min	-
Curing time	23 °C 50 % r.h	12 h/mm	-

¹at 23 °C, 50 % RH

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
Color	-	red	-
Hardness Shore A	-	25	ISO 7619-1 / 23°C / d = 6 mm
Tensile strength ⁽¹⁾	-	2.5 N/mm ²	ISO 37
Elongation at break ⁽²⁾	-	300 %	ISO 37
Tear strength	-	8.0 N/mm	based on ASTM D 624 B / 23°C / t = 2 mm

¹Type 3 / 23°C / 2mm

²Type 3 / 23°C / 2mm

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Applications

- Heating Elements

Application details

High temperature resistant grade for sealing, bonding and coating, use e.g. for sealing tubular heating elements

Processing

ELASTOSIL® E10 ROT 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.

QR Code ELASTOSIL® E10 ROT



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

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