

ELASTOSIL[®] E303 TRANSLUZENT



Moisture Curing Silicone Rubber (RTV-1)

ELASTOSIL[®] E303 TRANSLUZENT is an acetoxy-cure, 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.

Properties

- ready-to-use
- free flowable material for coating and sealing applications
- Application by brushing, dipping, spraying
- for robust and thin protective coatings

Specific features

- 1-component system
- Acetoxy-cure
- Low viscosity
- Solvent-based

Technical data

Properties Uncured

Property	Condition	Value	Method
Color	-	colorless	-
Density	-	0.90 g/cm ³	DIN EN ISO 2811-1
Curing time thickness 0,5 mm	23 °C 50 % r.h	120 min	-
Flash point	-	approx. 28 °C	DIN 51376
Ignition temperature	-	345 °C	DIN 51794
Skin forming time	23 °C 50 % r.h	5 min	-
Solvent content (white spirit)	-	55 %	-
Spreading of 2 cm ³	-	4.5 - 6 cm	-
Viscosity, dynamic	25 °C	500 mPa·s	DIN EN ISO 2555

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

Properties Cured

Cure conditions: 5 min / 165 °C in press

Property	Condition	Value	Method
Hardness Shore A	-	30	DIN ISO 48-4
Tensile strength ⁽¹⁾	-	5 N/mm ²	ISO 37
Elongation at break	-	400 %	ISO 37

¹Type 3 / 23 °C / d = 2 mm

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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

- Ready-to-Use Silicone Sealants - General Applications

Application details

- Protective coating against moisture and environmental influence
- Thin film coating for sealing applications

Typical application is selective coating of heat exchangers (automotive radiators).

Processing

ELASTOSIL® E303 TRANSLUZENT can be applied by

- dipping
- spraying
- brushing
- 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® E303 TRANSLUZENT contains about 55% of solvent 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 50% has to be considered.

ELASTOSIL® E303 TRANSLUZENT 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.

Uncured or partially cured silicone can be removed by help of organic solvents such as aliphatic 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. In thin films, Wacker Silicone Remover S8 is suited as well.

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

ELASTOSIL® E303 TRANSLUZENT releases during cure a total of about 4 % acetic acid and 50 % white spirit 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 or may be printed via WACKER web site <http://www.wacker.com>.

QR Code ELASTOSIL® E303 TRANSLUZENT



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

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