

ELASTOSIL® E 43 N TRANSPARENT

RTV-1 Silicone Rubber

Characteristics

ELASTOSIL® E 43 N TRANSPARENT is a non-slump to self-levelling silicone rubber formulation, which cures at room temperature under the influence of atmospheric moisture to yield a silicone elastomer with very good mechanical properties

Special characteristics

- Acetic acid-curing system
- Non-slump to self-levelling
- fast curing
- Excellent primerless adhesion to many substrates
- Suitable for food contact according to the regulations *BfR XV. Silicones, FDA 21 CFR § 175.300 "Resinous and polymeric coatings" and FDA 21 CFR § 177.2600 "Rubber articles intended for repeated use"*

Application

- Multipurpose glue, in particular for food related applications

Processing

ELASTOSIL® E 43 N TRANSPARENT cures at room temperature under the influence of atmospheric moisture:

Skin-forming time, 23 °C, 50 % RH	5 – 10 min
Curing time, 23 °C, 50 % RH	12 h/mm

The fully cured material typically shows good primerless adhesion to many substrates. We recommend to run preliminary tests to optimize conditions for the particular application.

Storage

ELASTOSIL® E 43 N TRANSPARENT should be stored between 5 °C and 25 °C in tightly closed original containers. The 'Best use before end' date of each batch appears 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.

Product data (uncured)

Property	Test method	Unit	Value
Color			Translucent
Density at 23 °C		[g/cm³]	1.08
Viscosity at 23 °C	ISO 3219	[mPa s]	300,000

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

Product data (cured)

Property	Test method	Unit	Value
Color			Translucent
Density at 23 °C, in water	DIN EN ISO 1183-1 / ISO 2781	[g/cm³]	1.10
Hardness Shore A	DIN 53 505 / ISO 868		35
Elongation at break	DIN 53 504 S 1 / ISO 37	[%]	750
Tensile strength	DIN 53 504 S 1 / ISO 37	[N/mm²]	6.0
Tear strength	ASTM D 624	[N/mm]	12.0

2 mm, 14 d storage at 23 °C, 50 % RH.

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Safety information

During vulcanization of ELASTOSIL® E 43 N TRANSPARENT, a total of about 3.5 % 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.

The data presented in this leaflet 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 leaflet 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 recommendations do 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 products for a particular purpose.

The management system has been certified according to DIN EN ISO 9001 and DIN EN ISO 14001

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

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