

# ELASTOSIL® E 14

RTV-1 Silicone Rubber

## Characteristics

ELASTOSIL® E 14 is a non-slump one-component silicone rubber, which cures at room temperature under the influence of atmospheric moisture.

## Special characteristics

- Acetic acid-curing system
- Non-slump
- Excellent heat stability
- Excellent primerless adhesion to many substrates

## Application

- Gluing applications under high thermal stress

## Processing

|                                   |             |
|-----------------------------------|-------------|
| Skin-forming time, 23 °C, 50 % RH | 10 - 20 min |
| Curing time, 23 °C, 50 % RH       | 12 h/mm     |

ELASTOSIL® E 14 shows good primerless adhesion to many substrates. We recommend to run preliminary tests to optimize conditions for the particular application.

## Storage

ELASTOSIL® E 14 has a shelf life of at least 9 months when stored between 5 °C and 25 °C in the originally sealed container. 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              |             |                      | Red       |
| Density at 23 °C   |             | [g/cm <sup>3</sup> ] | 1.24      |
| Viscosity at 23 °C | ISO 3219    | [mPa s]              | Non-slump |

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                      |                         |                      | Red   |
| Density at 23 °C, in water | DIN 53 479 A / ISO 2781 | [g/cm <sup>3</sup> ] | 1.25  |
| Hardness Shore A           | DIN 53 505 / ISO 868    |                      | 36    |
| Elongation at break        | DIN 53 504 S 1 / ISO 37 | [%]                  | 300   |
| Tensile strength           | DIN 53 504 S 1 / ISO 37 | [N/mm <sup>2</sup> ] | 3.0   |
| Tear strength              | ASTM D 624              | [N/mm]               | 6.0   |

2mm, 14 d storage at 23 °C, 50 % RH.

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## Safety information

During vulcanization of ELASTOSIL® E 14, a total of 3 % by weight of acetic acid is split off. These vapours should not be inhaled for long periods or in high concentrations. 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.

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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. The Business Unit Elastomers of the Division Silicones is ISO/TS 16949 certified.

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