

ELASTOSIL® RT 713

SILICONE SEALANT

Product description

ELASTOSIL® RT 713 is a non-slump, addition-crosslinking, thermal-curing, one-component silicone rubber.

Special features

- ready-to-use, one-part system
- non-slump
- rapid heat cure
- low density
- low hardness
- high compressibility
- primerless adhesion to many substrates

Application

- general-purpose sealant
- FIPG and CIPG applications

Processing

Surface preparation

All surfaces must be clean and free of contaminants that will inhibit the cure of ELASTOSIL® RT 713. Examples of inhibiting contaminants are sulfur containing materials, plasticizers, urethanes, amine containing materials and organometallic compounds – especially organotin compounds. If a substrate's ability to inhibit cure is unknown, a small scale test should be run to determine compatibility.

Dispensing:

Because of the high thixotropy (shear thinning effect) ELASTOSIL® RT 713 can be dispensed easily with all dispensing equipments.

Curing:

ELASTOSIL® RT 713 works best when cured at 115 °C or more depending on the size and heat sink

properties of the components.

ELASTOSIL® RT 713 shows good primerless adhesion to many substrates (metals, glass, ceramics, plastics). We recommend running preliminary tests to optimize conditions for the particular application.

| Temperature | Curing time, thickness 1 cm |
|-------------|-----------------------------|
| 100 °C | 4 h |
| 130 °C | 30 min |
| 150 °C | 10 min |

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

According to the latest findings, the addition-curing silicone rubber ELASTOSIL® RT 713 contains neither toxic or corrosive substances which would require special handling precautions.

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>.

Product data

| Typical general characteristics | Inspection Method | Value |
|---------------------------------|-------------------|--------------------------------|
| Product data (uncured) | | |
| Color | | gray |
| Density | DIN 53479 | approx. 0,75 g/cm ³ |
| Viscosity, dynamic | | 80000 mPa.s |
| Viscosity at 23 °C (D = 25 1/s) | ISO 3219 | 80000 mPa s |
| Product data (cured) | | |
| Color | | gray |
| Density at 23 °C | ISO 2781 | 0,75 g/cm ³ |
| Hardness Shore A | ISO 868 | 23 |
| Elongation at break | ISO 37 | 350 % |
| Tensile strength | ISO 37 | 1,50 N/mm ² |
| Tear resistance | ASTM D 624 B | 7 N/mm |

Cured for 30 min at 150 °C in a circulating air oven.

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

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.

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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