ELASTOSIL® RT 601 A/B

RTV-2 SILICONE RUBBER

Product description

ELASTOSIL® RT 601 A/B is a pourable, addition-curing RTV-2 silicone rubber.

Special features

- two-part, 9 : 1 mixing ratio
- low viscosity
- medium cured hardness
- excellent tensile strength
- crystal clear vulcanizate

Application

- all-round potting compound
- manufacture of molded articles by casting

Processing

Caution:
Only components A and B with the same lot number may be processed together!

Surface preparation:
All surfaces must be clean and free of contaminants that will inhibit the cure of ELASTOSIL® RT 601 A/B. 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.

Mixing:
Component A of ELASTOSIL® RT 601 contains the platinum catalyst, component B the crosslinker. Even traces of the platinum catalyst may cause gelling of the component containing the crosslinker. Therefore tools (spatula, stirrers, etc.) used for handling the platinumcontaining component or the catalyzed compound must not come into contact with this component.

The two components should be thoroughly mixed at a 9 : 1 ratio by weight or volume.

To eliminate any air introduced during dispensing or trapped under components or devices a vacuum encapsulation is recommended.

Curing:
Curing time of addition curing silicone rubber is highly dependent on temperature, size and heat sink properties of the component being potted.

The reactivity can be adjusted within wide limits by adding Catalyst EP or Inhibitor PT 88 to suit the processing requirements of the particular application. Catalyst EP increases the reactivity, i. e., pot life and curing time are reduced. Inhibitor PT 88 is a pot life extender and prolongs pot life and curing time. Further information is given in our leaflet "Catalyst EP/Inhibitor PT88".

We recommend running preliminary tests to optimize conditions for the particular application.

Comprehensive instructions are given in our leaflet "ELASTOSIL® - PROCESSING RTV-2 SILICONE RUBBERS".

Temperature	Curing time, thickness 1 cm
23 °C	24 h
70 °C	20 min
100 °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.

require special handling precautions.

Safety notes

According to the latest findings, the addition-curing silicone rubber ELASTOSIL® RT 601 A/B contains neither toxic or corrosive substances which would

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)		
Component A		
Color		colorless
Viscosity at 23 °C	ISO 3219	5000 mPa s
Density at 23 °C		1,03 g/cm³
Component B		
Color		colorless
Viscosity at 23 °C	ISO 3219	40 mPa s
Density at 23 °C		0,97 g/cm³
Product data (catalyzed A+B)		
Mix ratio (pbw)	A : B	9 : 1
Viscosity of mix at 23 °C	ISO 3219	3500 mPa s
Pot life at 23 °C, up to 20000 mPa s		90 min
Platinum-catalyst in component		A
Product data (cured)		
Color		colorless, transparent
Density at 23 °C	ISO 2781	1,02 g/cm³
Hardness Shore A	ISO 868	45
Tensile strength	DIN ISO 37	6,00 N/mm^2
Elongation at break	ISO 37	100 %
Volume resistivity	IEC 60093	10^{15} Ω cm
Permittivity	IEC 60250	2,8

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

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

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