ELASTOSIL® RT 601 A/B

ELASTOSIL®

Room Temperature Curing Silicone Rubber (RTV-2)

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

Properties

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

Technical data

Properties Uncured

Property	Condition	A	B	Method
Color	-	colorless	colorless	-
Density	23 °C	1.03 g/cm³	0.97 g/cm³	ISO 2781
Viscosity, dynamic	23 °C	5000 mPa·s	40 mPa·s	ISO 3219

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

Properties Catalyzed A+B

Property	Condition	Value	Method
Viscosity, dynamic of mix	23 °C	3500 mPa·s	ISO 3219
Platinum catalyst in component	-	A	-
Mix ratio[1]	-	9 : 1	A : B
Pot life[2]	-	90 min	-

[1](pbw)
[2]at 23 °C, up to 20000 mPa s

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Properties Cured

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

Property	Condition	Value	Method
Color	-	colorless, transparent	-
Density	23 °C	1.02 g/cm^3	ISO 2781
Hardness Shore A	-	45	ISO 868
Tensile strength	-	6 N/mm^2	DIN ISO 37
Elongation at break	-	100 %	ISO 37
Volume resistivity	-	10^{15} Ohmcm	IEC 60093
Permittivity	-	2.8	IEC 60250

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Applications

- Measurement & Control, Sensor Technology
- Automotive Electronics

Application details

- 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!

Temperature	Curing time, thickness 1 cm
23 °C	24 h
70 °C	20 min
100 °C	10 min

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.

Please check also our brochures and info sheets.

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

According to the latest findings, the addition-curing silicone rubber ELASTOSIL® RT 601 A/B 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.

QR Code ELASTOSIL® RT 601 A/B

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

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