

ELASTOSIL[®] RT 624 "4S" A/B VS

Room Temperature Curing Silicone Rubber (RTV-2)

Pourable, addition-curing, two-component thermal curing silicone especially suited for Fuel Cell Sealing

Properties

- high tear resistance
- long potlife at ambient temperature
- high reactivity already at 120 °C
- outstanding compression set
- suitable for LIM process
- cure at low mold temperature possible
- high resistance to fuel cell environment

Technical data

Properties Uncured

Property	Condition	A	B	Method
Color	-	translucent	translucent	-
Density	23 °C	1.07 g/cm ³	1.07 g/cm ³	DIN EN ISO 2811-1
Viscosity, dynamic D = 0.5 1/s	25 °C	60000 mPa·s	30000 mPa·s	DIN EN 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 D = 0,5 1/s	25 °C	50000 mPa·s	DIN EN ISO 3219
Viscosity, dynamic D = 10 1/s	25 °C	30000 mPa·s	DIN EN ISO 3219
Mix ratio	-	1 - 1 pbw	-
Pot Life	23 °C	24 h	DIN EN ISO 3219
Kick-off temperature	-	100 °C	ISO 6502
T20	110 °C	30 s	-
T90	110 °C	60 s	ISO 6502

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

Properties Cured

Cure conditions: 5 min / 165 °C in press

Property	Condition	Value	Method
Color	-	translucent	-
Density in water	23 °C	1.07 g/cm ³	DIN EN ISO 1183-1 A
Tensile strength	-	≥ 5.0 N/mm ²	ISO 37 type 1
Elongation at break	-	≥ 300 %	ISO 37 type 1
Tear strength	-	≥ 14 N/mm	ASTM D 624 B
Coefficient of linear expansion	0 °C	2.82*10E-4 m/mK	-
Compression Set	22 h 120 °C	≤ 5 %	DIN ISO 815-1 type B method B

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

All the information provided is in accordance with the present state of our knowledge. Nonetheless, we disclaim any warranty or liability whatsoever and reserve the right, at any time, to effect technical alterations. The information provided, as well as the product's fitness for an intended application, should be checked by the buyer in preliminary trials. Contractual terms and conditions always take precedence. This disclaimer of warranty and liability also applies particularly in foreign countries with respect to third parties' rights.

Applications

- Bonding & Sealing
- Cured-In-Place-Gaskets (Dry Type)
- Fuel Cells

Application details

Important The platinum catalyst is contained in Component A. Only components A and B that have the same lot number may be processed together! Mixing of the components To ensure both optimum flow and, in case a Pigment Paste FL was added, also full homogeneity of the material by uniformly dispersing any pigment that might have settled during storage, the components should be stirred thoroughly before they are removed from or processed in their containers. It is absolutely imperative that any equipment, such as mixing vessels, spatulas and stirrers, that is used to process Component A (which contains the platinum catalyst) or the mixture of both components does not come in contact with Component B (which contains the crosslinker). Therefore, all equipment should be clearly labeled. - silicone rubber for temperature sensitive sealing applications - particularly suitable for fuel cell seals

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

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 624 "4S" A/B VS



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

Wacker Chemie AG, Hanns-Seidel-Platz 4, 81737 Munich, Germany
productinformation@wacker.com, www.wacker.com

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.