

ELASTOSIL® RT 774

RTV-2 Silicone Rubber

Characteristics

ELASTOSIL® RT 774 is a non-slump room temperature vulcanizing, condensation-curing, two-component silicone rubber with good primerless adhesion.

Special characteristics

- Thixotropic
- Non-slump
- Medium hardness
- Primerless adhesion on glass, aluminium, stainless steel, epoxy powder coatings
- Temperature stability: -40 °C to +180 °C; when cured with Catalyst T 78 black: -40 °C to +200 °C

Curing of ELASTOSIL® RT 774 with Catalyst T 77 or Catalyst T 78:

Product data (uncured A, uncured B)

Property	Test method	Unit	Value	Value	Value
Component			EL RT 774 (A component)	Catalyst T 77 (B component)	Catalyst T 78 (B component)
Color			White	Black	Black, Beige Grey
Viscosity at 23 °C	DIN 51 562, D = 0.5 1/s D = 25 1/s	[mPa s]	1,400,000 100,000	300,000 15,000	450,000 23,000
Density at 23 °C		[g/cm³]	1.4	1.1	1.1

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

Product data (mix of A+B)

Property	Mixing ratio, parts by weight	Unit	Value	Value
			EL RT 774 / T 77	EL RT 774 / T 78
Pot life	10 : 1	[min]	15 - 20	5 - 10
Curing time	10 : 1	[min]	45 - 60	15 - 30

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

Product data (cured)

Property	Test method	Unit	Value (cured with T 77)	Value (cured with T 78)
Color			Anthracite	Anthracite, Light Grey
Density at 23 °C, in water	DIN EN ISO 1183-1	[g/cm³]	1.37	1.37
Hardness Shore A	DIN 53 505 / ISO 868		40	38
Tensile strength	DIN 53 504 S1 / ISO 37	[N/mm²]	2,2	2,0
Elongation at break	DIN 53 504 S1 / ISO 37	[%]	250	300
Tear Strength		[N/mm]	6,5	7,0

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

Curing of ELASTOSIL® RT 774 with Catalyst T 774:

Product data (uncured A, uncured B)

Property	Test method	Unit	Value	
Component			EL RT 774 (A component)	Catalyst T 774 (B component)
Color			White	Black
Viscosity at 23 °C	DIN 51 562, D = 0.5 1/s D = 25 1/s	[mPa s]	1,400,000 100,000	250,000 10,000
Density at 23 °C		[g/cm³]	1.4	1.1

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

Product data (mix of A+B)

Property	Mixing ratio, parts by weight	Unit	Value
			EL RT 774 / T 774
Pot life	13 : 1	[min]	30
Curing time	13: 1	[min]	120

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			Black
Density at 23 °C, in water	DIN EN ISO 1183-1	[g/cm³]	1.35
Hardness Shore A	DIN 53 505 / ISO 868		40
Tensile strength	DIN 53 504 S1 / ISO 37	[N/mm²]	2.0
Elongation at break	DIN 53 504 S1 / ISO 37	[%]	200

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Application

- Adhesive for the Appliance industry
- General purpose sealant

Processing

ELASTOSIL® RT 774 is processed in combination with Catalyst T 77, Catalyst T 78 or Catalyst T 774. The curing time can be easily adjusted to the particular needs by varying the ratio of component A and B.

We recommend running preliminary tests to optimize conditions for the particular application. Comprehensive processing instructions are given in our leaflet "Wacker RTV-2 Silicone Rubber - Processing".

Storage

ELASTOSIL® RT 774 should be stored between 5 °C and 30 °C in the tightly closed original 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.

Safety information

Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are available on request from Wacker subsidiaries.

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

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