

ELASTOSIL® RT 623 A/B

RTV-2 Silicone Rubber / Pad Printing

Characteristics

ELASTOSIL® RT 623 A/B is a pourable, addition-curing, two-component silicone rubber that vulcanizes at room temperature.

Special characteristics

- Excellent flow
- High reactivity for fast demolding even if large amounts of silicone fluid are added
- Fast and non-shrink cure at room temperature which can be accelerated considerably by the application of heat
- Medium hardness (Shore A approx. 31)
- High tear strength
- Long-term stability of the vulcanizate's mechanical properties, particularly its hardness

Application

Base rubber for making printing pads

ELASTOSIL® RT 623 A/B has been specially designed as a base material for making printing pads.

The vulcanizate's high mechanical strength and long term stability of hardness make ELASTOSIL® RT 623 A/B an ideal base material for producing printing pads with excellent mechanical properties and long service life.

Product data (uncured)

Property	Test method	Unit	Value	
			A	B
Component				
Color			White	Reddish brown
Density at 23°C		[g/cm ³]	1.14	1.02
Viscosity at 23°C, after stirring	ISO 3219	[mPa s]	15,000	800

Product data (catalyzed A+B)

Property	Test method	Unit	Value
Mixing ratio	A : B	[pbw]	9 : 1
Viscosity at 23°C	ISO 3219	[mPa s]	10,000
Pot-life, at 23 °C (up to 60,000 mPas)		[min]	30
Curing time, tack-free		[h]	5

Product data (cured)

Property	Test method	Unit	Value
Color			Reddish brown
Density at 23°C, in water	ISO 2781	[g/cm ³]	1.12
Hardness Shore A	ISO 868		31
Tensile strength	ISO 37	[N/mm ²]	7.5
Elongation at break	ISO 37	[%]	700
Tear strength	ASTM D 624 B	[N/mm]	> 30
Linear shrinkage		[%]	< 0.1

After 24 h at 23°C.

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

Processing

Important

The platinum catalyst is contained in component B.

Caution

Only components A and B that have the **same lot number** may be processed together!

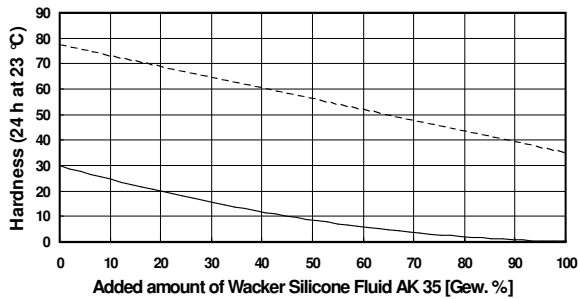
To ensure both optimum flow and homogeneity of the material, the components must be stirred thoroughly before they are removed or processed in their containers, in order to uniformly disperse any fillers that might have settled during storage.

Dilution charts

The following table shows the hardness of ELASTOSIL® RT 623 as a function of the added amount of Wacker Silicone Fluid AK 35 for Durometer Types Shore A and Shore 00.

Hardness Shore A / Shore 00

Added amount of Wacker Silicone Fluid AK 35 [wt %]		0	30	50	70	100	120
Shore A		31	14	8	4	1	0
Shore 00		80	64	57	46	34	28



--- Hardness Shore 00
 — Hardness Shore A

Comprehensive instructions are given in our leaflet "Wacker RTV-2 Silicone Rubber - Processing."

Storage

ELASTOSIL® RT 623 A/B 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

Components A and B of the addition-curing grade ELASTOSIL® 623 A/B contain only constituents that over many years have proved to be neither toxic nor aggressive. Special handling precautions are therefore not required, i.e. only the general industrial hygiene regulations apply.

Detailed safety information is contained in each Material Safety Data Sheet, which can be obtained from our sales offices.

Additional information

Please visit our website www.wacker.com

Supplied by

AMBERCOMPOSITES

94 Station Road, Langley Mill
 Nottingham, NG16 4BP United Kingdom
 T: +44 (0)1773 530899 F: +44 (0)1773 768687
 E: sales@ambercomposites.com
www.ambercomposites.com

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



and ELASTOSIL® are registered trademarks of Wacker Chemie AG.

Version 6.00 from 29-08-07 replaces Version 5.00 from 16-03-07

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

Wacker Chemie AG
 WACKER-SILICONES
 Hanns-Seidel-Platz 4
 D-81737 Munich, Germany

www.wacker.com
silicones@wacker.com