

# ELASTOSIL<sup>®</sup> RT 623 A/B KR

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## Room Temperature Curing Silicone Rubber (RTV-2)

Pourable, addition-curing, two-component silicone rubber for pad printing that vulcanizes at room temperature.

Main application: Making printing pads.



## Properties

- very good 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 Shore A hardness (approx. 31)
- high tear strength
- long-term stability of the vulcanizate's mechanical properties, particularly its hardness

## Specific features

- Addition Curing
- Excellent mechanical properties
- Fast curing at room temperature
- Flowable
- No chemical shrinkage
- Two-component

## Technical data

### Properties Uncured

Property	Condition	A	B	Method
Color	-	white	reddish brown	-
Density	23 °C	1.14 g/cm <sup>3</sup>	1.02 g/cm <sup>3</sup>	DIN EN ISO 2811-1
Viscosity, dynamic after stirring	23 °C	15000 mPa·s	800 mPa·s	ISO 3219

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

### Catalyzed

Property	Condition	Value	Method
Viscosity, dynamic	23 °C	10000 mPa·s	ISO 3219
Mix ratio <sup>(1)</sup>	-	9 : 1	A : B
Pot Life up to 60000 mPa·s	23 °C	30 min	DIN EN ISO 2555
Curing time tack-free	-	5 h	-

<sup>(1)</sup>(pbw)

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## Properties Cured

After 24 h at 23 °C

Property	Condition	Value	Method
Color	-	reddish brown	-
Density in water	23 °C	1.12 g/cm <sup>3</sup>	DIN EN ISO 1183-1 A
Tear strength	-	> 30 N/mm	ASTM D 624 B
Hardness Shore A	-	31	DIN ISO 48-4
Tensile strength	-	7.5 N/mm <sup>2</sup>	ISO 37 type 1
Elongation at break	-	700 %	ISO 37 type 1
Linear shrinkage	-	< 0.1 %	-

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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

- Elastomers for Pad Printing

## Application details

Base rubber for making printing pads.

ELASTOSIL® RT 623 A/B KR 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 KR an ideal base material for producing printing pads with excellent mechanical properties and long service life.

## Processing

Important note:

The platinum catalyst is in **component B**.

Important:

A and B components may only be used together if they have the same batch number.

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.

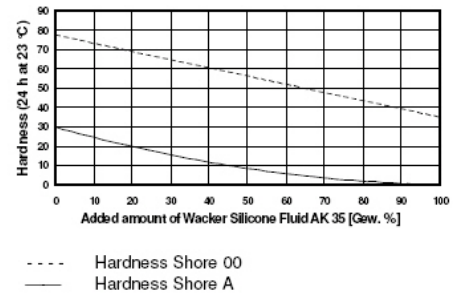
Dilution charts:

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

**Please check also our brochures and info sheets.**

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



## 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

Components of the addition-curing grade ELASTOSIL® RT 623 A/B KR 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. 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 623 A/B KR



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

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