

ELASTOSIL[®] M 4635 A/B

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Room Temperature Curing Silicone Rubber (RTV-2)

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

Main application: Making molds for concrete casting.

Food contact (FDA/ BfR compliant).



Properties

- very good flow
- fast and non-shrink cure at room temperature which can be accelerated considerably by the application of heat
- low Shore A hardness (approx. 37)
- high tear strength
- excellent long-term stability of the mechanical properties of the vulcanizate
- outstanding resistance to concrete

Special features

- BfR compliant
- FDA compliant

Technical data

Properties Uncured

Property	Condition	A	B	Method
Viscosity, dynamic after stirring	23 °C	20000 mPa·s	700 mPa·s	ISO 3219
Density	23 °C	1.15 g/cm ³	1 g/cm ³	-
Color	-	light gray	white	-

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

Properties Catalyzed A+B

Property	Condition	Value	Method
Curing time tack-free	-	12 h	-
Pot Life (up to 60000 mPas)	23 °C	90 min	-
Mix ratio	-	10 : 1 pbw	A : B
Viscosity, dynamic	23 °C	15000 mPa·s	ISO 3219

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Properties Cured

After 24 h at 23 °C.

Property	Condition	Value	Method
Linear shrinkage	-	< 0.1 %	-
Elongation at break	-	480 %	ISO 37
Tensile strength	-	7 N/mm ²	ISO 37
Hardness Shore A	-	37	ISO 868
Density in water	23 °C	1.14 g/cm ³	ISO 2781
Color	-	white	-
Tear strength	-	> 30 N/mm	ASTM D 624 B

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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

- Construction Molding

Application details

Due to its outstanding resistance to concrete and superior mechanical properties, ELASTOSIL® M 4635 A/B is perfectly suitable for all molds of models with undercuts that are to be reproduced in casting resins, and a certain inherent rigidity of the molds is required.

As a medium-Shore addition-curing RTV-2 silicone rubber that cures without undergoing dimensional shrinkage, ELASTOSIL M 4535 A/B is also extremely suitable for casting other common reproduction materials, especially casting resins where absolutely accurate copies of models are required.

Processing

Important:

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

Caution:

Only components A and B with the same lot number may be processed together!

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

Components A and B of the addition-curing grade ELASTOSIL® M 4635 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.

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® M 4635 A/B



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

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