

ELASTOSIL[®] SC 833 A/B



Room Temperature Curing Silicone Rubber (RTV-2)

ELASTOSIL[®] SC 833 A/B is a pourable, addition-curing, two-component silicone rubber, forming a mainly closed cell foam. It shows excellent flame resistance and is self extinguishing.

Properties

- low processing viscosity
- good processability on automated dispensing equipment
- easy control of mixing quality due to different colors of the components
- no ozone damaging blowing agents
- no release of toxic or strong smelling substances during foaming or curing
- low smoke gas toxicity
- low heat of reaction (max. 40 °C)
- high LOI-value
- long-term flexible over a temperature range of -50 °C to +200 °C
- good chemical resistance

Specific features

- Compressible
- Flame retardant
- Foam
- Heat resistant
- High LOI
- Low compression set
- Two-component

Technical data

Properties Uncured

Property	Condition	A	B	Method
Viscosity, dynamic	23.0 °C	15000.0 mPa·s	17000.0 mPa·s	ISO 3219
Density	23.0 °C	1.13 g/cm ³	1.15 g/cm ³	-
Color	-	white	black	-

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	23.0 °C	24.0 h	-
Tack-free time	-	15.0 min	-
Pot life ⁽¹⁾	-	280 s	-
Mix ratio ⁽²⁾	-	1 : 1	A : B

⁽¹⁾(23 °C, until to 100000 mPa s)

⁽²⁾(p.p.w.)

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Properties Cured

Property	Condition	Value	Method
LOI	-	> 32.0 %	-
Elongation at break	-	80 %	ISO 37
Tensile strength	-	0.8 N/mm ²	ISO 37
Hardness Shore A ⁽¹⁾	-	27	ISO 868
Density	23.0 °C	0.48 g/cm ³	-
Color	-	black	-

⁽¹⁾(with skin)

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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

- Automotive & Transport

Application details

- general purpose high and low temperature resistant sealing material
- suitable for sound and heat insulation
- shock and vibration damping at high temperature changes
- especially suitable for applications that need fire retardant properties

Processing

ELASTOSIL® SC 833 A/B shows good primerless adhesion to many substrates (metals, glass, ceramics, PA, PBTP). If self-adhesion is not sufficient, surface treatment or a primer may be applied.

For processing we recommend to use automatic mixing and dispensing equipment with dynamic mixer, our technical service will give advice for proper selection.

The quality of the foam is highly influenced by processing parameters (e. g. addition of air, type of mixer) and environmental parameters. As ELASTOSIL® SC 833 A/B is an addition-curing system certain substances can inhibit the foaming and curing process. Our technical service will be glad to help to solve such problems.

We recommend to run preliminary tests to optimize conditions for the particular application.

Attention:

During foaming and curing hydrogen gas is evolved. Please ensure proper ventilation, if larger amounts of material are processed. Release of hydrogen is almost completed after 24 hours.

The platinum catalyst is contained in component A.

Caution:

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

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

According to the latest findings, the components A + B of ELASTOSIL® SC 833 A/B, being an addition-curing RTV-2 silicone rubber, contains neither toxic or corrosive substances which would require special handling precautions. General hygiene regulations should be observed. 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® SC 833 A/B



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

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