

ELASTOSIL[®] SC 870 A/B



Room Temperature Curing Silicone Rubber (RTV-2)

ELASTOSIL[®] SC 870 A/B is a thixotropic, addition-curing, two-part silicone rubber, forming a mainly closed cell foam. ELASTOSIL[®] SC 870 A/B is perfectly suited for processing with automatic dispensing equipment. It is suitable for CIPG foam gaskets even in 3D geometries due to its outstanding rheology.

Properties

- 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 heat of reaction (max. 40 °C)
- low toxicity of thermal decomposition products
- long-term flexible over a temperature range of -50 °C to +180 °C
- good chemical resistance
- fast foaming and cure
- medium foam density

Specific features

- Compressible
- Foam
- Heat resistant
- Thixotropic
- Two-component

Technical data

Properties Uncured

| Property | Condition | A | B | Method |
|-----------------------------------|-----------|------------------------|------------------------|-------------------|
| Color | - | black | colorless | - |
| Density | 23 °C | 1.05 g/cm ³ | 1.05 g/cm ³ | DIN EN ISO 2811-1 |
| Viscosity, dynamic ⁽¹⁾ | 23 °C | 40000 mPa·s | 50000 mPa·s | Brookfield |

¹Spindle 5, 2.5UPM

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

Properties Catalyzed A+B

| Property | Condition | Value | Method |
|--------------------------|-----------|-------------|--------|
| Mix ratio ⁽¹⁾ | - | 1 : 1 | A : B |
| Pot Life ⁽²⁾ | 25 °C | 150 s | - |
| Tack-free time | - | 10 - 15 min | - |

¹(pbw)

²Viscosity dynamic, ISO 3219, D = 1 1/s, time to 200 Pas

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Properties Cured

Curing conditions: 15 min / 50°C, conditioning min. 24 h at 23 °C / 50 % r.h

| Property | Condition | Value | Method |
|---------------------------------|-----------|------------------------------|---------------------|
| Color | - | gray | - |
| Density | 23 °C | 0.35 - 0.4 g/cm ³ | DIN EN ISO 1183-1 A |
| Hardness Shore A ⁽¹⁾ | - | 8 - 12 | DIN ISO 48-4 |
| Hardness Shore 00 (with skin) | - | 40 - 60 | ASTM D 2240 |
| Tensile strength | - | 350 kPa | ISO 1798 |
| Elongation at break | - | 100 % | ISO 1798 |

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

- Cured-In-Place-Gaskets (Dry Type)
- Gaskets
- Luminaires

Application details

- general purpose foam for gaskets (dispensed foam gaskets)
- especially suitable for 3-dimensional gasket bead
- general purpose high and low temperature resistant sealing material
- suitable for NVH insulation

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 addition-curing silicone rubber ELASTOSIL® SC 870 A/B contains neither toxic or corrosive substances which would require special handling precautions.

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 870 A/B



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

Wacker Chemie AG, Hanns-Seidel-Platz 4, 81737 Munich, Germany
info@wacker.com, www.wacker.com

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