

SILPURAN[®] 2420 A/B



Room Temperature Curing Silicone Rubber (RTV-2)

Addition-curing RTV-2 silicone rubber curing to a silicone elastomer of medium hardness.

Properties

- biocompatible, certificates of compatibility with USP Class VI and ISO 10993 available on request
- no by-products from curing process
- low viscosity, easily pourable
- mixing ratio 1 : 1
- fast cure at room temperature which can be accelerated considerably by the application of heat
- translucent vulcanisate with good tear resistance

Specific features

- Addition Curing
- Biocompatible
- Fast curing at room temperature
- Flowable
- Suitable for skin contact
- Two-component

Technical data

Properties Uncured

| Property | Condition | A | B | Method |
|--------------------|-----------|------------------------|------------------------|-------------------|
| Color | - | translucent | translucent | - |
| Density | - | 1.06 g/cm ³ | 1.09 g/cm ³ | DIN EN ISO 2811-1 |
| Viscosity, dynamic | - | 2500 mPa·s | 5000 mPa·s | DIN EN ISO 3219 |

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

Properties Catalyzed A+B

| Property | Condition | Value | Method |
|-----------|-----------|-------------|-----------------|
| Color | - | translucent | - |
| Mix ratio | - | 1 : 1 | A : B |
| Pot Life | 23 °C | 54 min | DIN EN ISO 2555 |

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

Properties Cured

Curing conditions: 10 min / 100 °C

| Property | Condition | Value | Method |
|---------------------|-----------|-----------------------|---------------|
| Tear strength | - | 13 N/mm | ASTM D 624 B |
| Hardness Shore A | - | 12 | DIN ISO 48-4 |
| Hardness Shore 00 | - | 60 | ASTM D 2240 |
| Tensile strength | - | 3.5 N/mm ² | ISO 37 type 1 |
| Elongation at break | - | 680 % | ISO 37 type 1 |

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

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

- Insoles, Orthoses & Pelottes
- Orthotics & Prosthetics

Application details

SILPURAN® 2420 A/B can be used for flexible molding applications in orthopedic technology.

Processing

Components A and B of SILPURAN® 2420 A/B are mixed homogeneously in a ratio of A : B = 1 : 1 and vulcanise rapidly at temperatures over 100 °C. In a given application the required curing conditions (temperature and time) will also depend on the size and thickness of the specimen.

Detailed instructions for preparation and use are given in the brochure "Room Temperature Vulcanizing (RTV) Silicones - Material and Processing Guidelines".

Important note:
The platinum catalyst is in component A.

Only A and B components with the same batch 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

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 SILPURAN® 2420 A/B



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

Wacker Chemie AG, Gisela-Stein-Strasse 1, 81671 Munich, Germany
productinformation@wacker.com, www.wacker.com

The data presented in this medium 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 medium 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 information provided by us does 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 product for a particular purpose.