ELASTOSIL® E4
Moisture Curing Silicone Rubber (RTV-1)

ELASTOSIL® E4 is a non-slump, acetoxy-cure one-component silicone rubber, which cures at room temperature under the influence of atmospheric moisture.

Properties

• acetoxy-curing system
• cured rubber with low Shore A hardness
• excellent primerless adhesion to many substrates
• good heat stability: permanent temperatures up to 180°C and peak temperatures up to 200°C

Special features

• General purpose
• Good adhesion to metals, glass and ceramics
• Good heat stability
• Non-slump
Technical data

Properties Uncured

<table>
<thead>
<tr>
<th>Property</th>
<th>Condition</th>
<th>Value</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin formation time⁽¹⁾</td>
<td>-</td>
<td>20 min</td>
<td>-</td>
</tr>
<tr>
<td>Viscosity dynamic</td>
<td>23 °C</td>
<td>non-slump</td>
<td>-</td>
</tr>
<tr>
<td>Color</td>
<td>-</td>
<td>transparent</td>
<td>-</td>
</tr>
<tr>
<td>Curing time</td>
<td>23 °C</td>
<td>50 % r.h.</td>
<td>12 h/mm</td>
</tr>
<tr>
<td>Density</td>
<td>20 °C</td>
<td>1.01 g/cm³</td>
<td>DIN 53217</td>
</tr>
</tbody>
</table>

⁽¹⁾at 23 °C / 50 % r.h.

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

Properties Cured

Curing conditions: 2mm, 14 days storage at 23 °C and 50 % RH.

<table>
<thead>
<tr>
<th>Property</th>
<th>Condition</th>
<th>Value</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elongation at break</td>
<td>-</td>
<td>750 %</td>
<td>DIN 53504 S1 / ISO 37</td>
</tr>
<tr>
<td>Tensile strength</td>
<td>-</td>
<td>2 N/mm²</td>
<td>DIN 53504 S1 / ISO 37</td>
</tr>
<tr>
<td>Hardness Shore A</td>
<td>-</td>
<td>15</td>
<td>DIN 53504 S1 / ISO 37</td>
</tr>
<tr>
<td>Density in water</td>
<td>23 °C</td>
<td>1.02 g/cm³</td>
<td>DIN EN ISO 1183-1 / ISO 2781</td>
</tr>
<tr>
<td>Color</td>
<td>-</td>
<td>transparent</td>
<td>-</td>
</tr>
<tr>
<td>Tear strength</td>
<td>-</td>
<td>7.3 N/mm</td>
<td>ASTM D 624</td>
</tr>
</tbody>
</table>

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

• Formed-In-Place-Gaskets (Wet Type)
• Cured-In-Place-Gaskets (Dry Type)

Application details

Multipurpose sealant and adhesive where low hardness/low modulus is needed for high movement capability
Processing

ELASTOSIL® E4 shows good primerless adhesion to many substrates. We recommend running preliminary tests to optimize conditions for the particular application.

Detailed processing instructions are given in our brochure “ROOM TEMPERATURE VULCANIZING (RTV) SILICONES - MATERIAL AND PROCESSING GUIDELINES

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

During vulcanization of ELASTOSIL® E4, a total of 3% by weight of acetic acid is split off. These vapours should not be inhaled for long periods or in high concentration. Work areas should therefore be well ventilated. Contact of unvulcanized silicone rubber with eyes and mucous membranes must be avoided as this would cause irritation. However if it does happen, rinse the affected area thoroughly with water.

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® E4

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

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.