SEALANT-457 is a one-part, neutral cure, odorless silicone sealant for use in general weather sealing applications. Once cured this sealant becomes a high modulus silicone rubber with a movement accommodation factor of ±25% of the original joint width. This sealant contributes to the superior design and has excellent durability and resistance to UV. (not suitable for structural or insulating glazing applications).

1 Features
- One-part and neutral-cure RTV® silicone sealant
- Superior weatherability performance when exposed to a wide range of temperatures, moisture, ozone, and ultraviolet rays
- Excellent unprimed adhesion to most common building materials and easy-to-use
- ±25% Joint Movement Capability of the original joint width
  * RTV stands for "room temperature vulcanizing" which means that this material can be cured at room temperature.

2 Applications
- General Weather Sealing, Glazing and Cladding Sealant
  * It can not be used on Polycarbonate and certain metals including copper and brass

3 Specifications
- KS F 4910 F-25HM®
  * Sealants for sealing and glazing in buildings

4 Colors
- Translucent, Black, White, Light gray

5 Packaging
- 300 mL cartridges (25 pcs/carton box)
- 600 mL sausages (20 pcs/carton box)

6 General properties

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Product name</th>
<th>SEALANT-457</th>
</tr>
</thead>
<tbody>
<tr>
<td>Consistency</td>
<td>Paste</td>
<td></td>
</tr>
<tr>
<td>Slump</td>
<td>mm</td>
<td>0</td>
</tr>
<tr>
<td>Skin-Over Time at 23°C/50%RH</td>
<td>min</td>
<td>4</td>
</tr>
<tr>
<td>Density at 23°C</td>
<td>g/cm³</td>
<td>1.45</td>
</tr>
<tr>
<td>After cured - After 7 days at 23°C/50%RH</td>
<td>Reference Test</td>
<td></td>
</tr>
<tr>
<td>Hardness Shore A Points</td>
<td>ASTM D2240</td>
<td>34</td>
</tr>
<tr>
<td>Tensile strength MPa</td>
<td>ASTM D412</td>
<td>1.5</td>
</tr>
<tr>
<td>Elongation at break %</td>
<td></td>
<td>520</td>
</tr>
<tr>
<td>After cured - After 21 days at 23°C/50%RH</td>
<td>Reference Test</td>
<td></td>
</tr>
<tr>
<td>50% Tensile stress MPa</td>
<td>ASTM C1135</td>
<td>0.48</td>
</tr>
<tr>
<td>Maximum tensile stress MPa</td>
<td>ASTM C719</td>
<td>0.72</td>
</tr>
<tr>
<td>Joint movement capability %</td>
<td></td>
<td>±25</td>
</tr>
</tbody>
</table>

(Not specified values)
Instructions for use & Handling precautions

Please read the latest Shin-Etsu published Functional Sealants Technical Manual. The manual can be obtained from the Shin-Etsu website.

https://www.shinetsusilicone-global.com/

Important

1) Please insure that application procedures and quality control are in strict compliance with the latest Shin-Etsu published Functional Sealants Technical Manual.

https://www.shinetsusilicone-global.com/

2) All quality control test results must be logged and archived.

3) The Shin-Etsu Sales and Technical Departments are available for specific advise. If more detailed information is required please contact your local Shin-Etsu office.

Limitations

1) SEALANT-457 must not be used and is not approved for structural glazing.

2) SEALANT-457 must not be used in food, medical or pharmaceutical applications.

3) The contents of this catalog are believed to be correct, but project conditions regarding actual application and use of Shin-Etsu sealant are beyond Shin-Etsu's control. Therefore, it is the users responsibility to confirm the application for each project.

4) Shin-Etsu warrants that the sealant will confirm to Shin-Etsu's product specifications at the time of shipment, and makes no further warranties in respect of the sealant.

5) In the event of any claim under the warranty, the remedy is limited to a refund of the original purchase price or replacement of the product. If the application requires an extended warranty for performance of sealants, please contact the Shin-Etsu Sales Department in advance of the project inception.

Storage conditions

Temperature: at or below 30°C

Seal container tightly and store in a cool, dark place (out of direct sunlight) with good ventilation. Keep away from heat and flame.

Shelf life

12 months after production date under the above storage conditions in the original unopened container.

Safety and hygiene

1) Uncured SEALANT-457 may cause skin irritation. When handling the products, take care to avoid contact with the skin and mucous membranes by wearing protective glasses and protective gloves. In case of skin contact, immediately wipe off with dry cloth and then flush thoroughly with running water. When using, be careful not to rub eyes with hands. In case of accidental eye contact, flush immediately with plenty of clean water for at least 15 minutes and then seek medical attention. Contact lens wearers must take special care. If the products get into the eye, the contact lens may become stuck to the eye.

2) Be sure to provide adequate ventilation when using the product. During curing, a small amount of Methanol gas is gradually generated. If you become uncomfortable with inhaling vapors, move to an area with fresh air immediately.

3) Keep out of reach of children.

4) Please read the Safety Data Sheets (SDS) before use. SDS can be obtained from our Sales Department.

Shin-Etsu Chemical Co., Ltd.

Silicone Division Sales and Marketing Department

6-1, Otemachi 2-chome, Chiyoda-ku, Tokyo, Japan
Phone : +81-(0)3-3246-5153 Fax : +81-(0)3-3246-5362

Shin-Etsu Silicone Korea Co., Ltd.

GT Tower 15F, 411, Seoocho-daero, Seocho-gu, Seoul 06615, Korea
Phone : +82-(0)2-590-2500 Fax : +82-(0)2-590-2501

Shin-Etsu Silicone International Trading (Shanghai) Co., Ltd.

29F Junyao International Plaza, No.789, Zhao Jia Bang Road, Shanghai 200032, China
Phone : +86-(0)21-6443-5550 Fax : +86-(0)21-6443-5868

Shin-Etsu Silicones (Thailand) Ltd.

7th Floor, Harindhorn Tower, 54 North Sathorn Road, Bangkok 10500, Thailand
Phone : +66-(0)2-632-2941 Fax : +66-(0)2-632-2945

Shin-Etsu Singapore Pte. Ltd.

4 Shenton Way, #10-03/06, SGX Centre II, Singapore 068807
Phone : +65-6743-7277 Fax : +65-6743-7477

The data and information presented in this catalog may not be relied upon to represent standard values. Shin-Etsu reserves the right to change such data and information, in whole or in part, in this catalog, including product performance standards and specifications without notice.

Users are solely responsible for making preliminary tests to determine the suitability of products for their intended use. Statements concerning possible or suggested uses made herein may not be relied upon, or be construed, as a guaranty of no patent infringement.

The silicone products described herein have been designed, manufactured and developed solely for general industrial use only; such silicone products are not designed for, intended for use as, or suitable for, medical, surgical or other particular purposes. Users have the sole responsibility and obligation to determine the suitability of the silicone products described herein for any application, to make preliminary tests, and to confirm the safety of such products for their use.

Users must never use the silicone products described herein for the purpose of implantation into the human body and/or injection into humans.

Users are solely responsible for exporting or importing the silicone products described herein, and complying with all applicable laws, regulations, and rules relating to the use of such products. Shin-Etsu recommends checking each pertinent country’s laws, regulations, and rules in advance, when exporting or importing, and before using the products.

Please contact Shin-Etsu before reproducing any part of this catalog. Copyright belongs to Shin-Etsu Chemical Co., Ltd.

https://www.shinetsusilicone-global.com/