

SilSo Bond 13621 1 Part Low Corrosive Industrial Sealant

Description

This is a 1-part, RTV (Room Temperature Vulcanising) silicone adhesive sealant. It is one in a range of Oxime cure products which are solvent free. It exhibits good primerless adhesion to many substrates especially plastics and cures rapidly at room temperature when in contact with atmospheric moisture. This product can be described as low corrosive but would not be recommended for use with copper or its associated alloys.

Key Features

- Excellent flow and self levelling properties
- Low corrosion
- Good adhesion to substrates

Application

Applications include but are not limited to screen printed gaskets automotive

Use and Cure Information

This product is a ready for use 1 Part system. If supplied in cartridges it can be applied using either manual or pneumatic dispensing guns. It can also be applied from bulk containers using conventional drum dispensing equipment.

All surfaces to which the sealant is to be applied should be clean, dry and free from grease, dirt, and loose material. Priming of surfaces is not normally required. If using as an adhesive, it should be applied to one clean surface and the other clean surface brought into contact with it within the tack free time stated opposite. For optimum bond strength, the thickness of the sealant joint should be a minimum of 1 mm.

The sealant will cure upon exposure to atmospheric moisture, ideally between 20 to 30 °C and 40% to 70% Relative Humidity. Time taken for cure will depend on the thickness of the joint, humidity and temperature. Joints should be left undisturbed for at least 24 hours, but preferably longer to effect sufficient depth of cure. Full cure requires 7 days.

"For pneumatic dispensing of 310 ml cartridges, the recommended pressure is 2.25 to 3.45 bar (40 to 50 psi). Dispensing pressure above the recommended limits may lead to gas bypassing the piston, causing spluttering at the nozzle and poor bead quality"

Health & Safety

Health and Safety

Safety Data Sheets available on request.

Packaging

CHT Adhesives are available in a variety packaging including cartridges and bulk containers. Please contact our sales department for more information.

Revision Date 30 Nov 2023
Revision No 3
Download Date 08 May 2024

Property

Uncured Product

| Property | Test Method | Value |
|--|-------------|-------------------------------|
| Appearance | | Viscous liquid |
| Cure Profile | | 23+/-2°C and 50+/-5% humidity |
| Cure Through to 3 mm Depth | | 24 hr |
| Cure Type | | Oxime |
| Extrusion Rate g/min | | 834 g/min |
| Rheology | | Flowable |
| Tack Free Time / Skin Formation at 23°C/73°F | | 19 min |
| Viscosity Mixed | Brookfield | 24000 cP |

Cured Product

7 days at 23+/-2°C and 50+/-5% humidity

| | | |
|--|----------------|---------------------|
| 100% Modulus (N/mm2) | | 0.36 MPa / 52 psi |
| Color | | White |
| Density | BS ISO 2781 | 1.05 g/cm3 |
| Elongation at Break | ISO 37 | 410 % |
| Hardness Shore A | ASTM D 2240-95 | 24 |
| Linear Coefficient of Thermal Expansion (ppm/°C) | | 306 ppm/°C |
| Linear Shrinkage (%) | | 1 % |
| Max Working Temp | | 230 °C / 446 °F |
| Min Working Temp | | -50 °C / -58 °F |
| Tear Resistance (N/mm) | BS ISO 34-1 | 3.3 N/mm / 19 ppi |
| Tensile Strength | ISO 37 | 2 N/mm2 / 290 psi |
| Thermal Conductivity | | 0.2 W/mK |
| Volume Coefficient of Thermal Expansion (ppm/°C) | | 920 ppm/°C |
| Youngs Modulus (N/mm2) | | 0.56 N/mm2 / 81 psi |

Electrical Properties

| | | |
|------------------------------|------------|----------------------|
| Dielectric Constant | ASTM D-150 | 2.6 |
| Dielectric Strength (V/mil) | | >457 V/mil |
| Dielectric Strength kV/mm | ASTM D-149 | 29 kV/mm / 737 V/mil |
| Dissipation Factor | ASTM D-150 | 0.001 |
| Volume Resistivity (Ohms cm) | ASTM D-257 | 1E+16 ohms cm |

Storage

| | |
|-------------------------|----------------|
| Max Storage Temperature | 40 °C / 104 °F |
| Shelf Life | 12 mths |

The content set out in the technical data sheet does not contain information upon which you should rely. It is provided for general information purposes only and does not constitute a product specification. You must obtain professional or specialist advice before taking any action based on the information provided in the technical data sheet. CHT make reasonable efforts to ensure that information set out in the technical data sheet is complete, accurate, and up-to-date. CHT do not, however, make any representations, warranties or guarantees (whether express or implied) that information set out in the technical data sheet is complete, accurate, or up-to-date or that the product will be suitable for your requirements. You should carry out your own testing to determine the applicability of such information and whether the product will be suitable. CHT reserve the right to modify the technical data sheet at any time. The CHT technical service department is available to offer further information and advice and should it be needed to look at modifying current products or custom formulate a new one to meet your specific requirements. Please contact the technical service department.

CHT Germany GmbH: Postfach 12 80, 72002 Tübingen, Bismarckstraße 102, 72072 Tübingen, Germany
Telephone: 07071/154-0, Fax: 07071/154-290, Email: info@cht.com, Homepage: www.cht.com / www.cht-silicones.com