TECHNICAL DATA SHEET



SilSo Bond 13623 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

- High temperature resistance to +260°C/500°F
- Resistance to 315°C/599°F intermittent exposure
- Excellent flow and self levelling properties
- Good adhesion to many substrates .

Application

Applications include but are not limited to, sealing and fixing of domestic irons, shallow potting of electrical connectors for automotive applications.

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.

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Test Method Value Property **Uncured Product** 50g Spread Diameter mm 140 mm Appearance Viscous liquid 23+/-2°C and 50+/-5% **Cure Profile** humidity Cure Through to 3 mm Depth 24 hr Cure Type Oxime Rheology Flowable Self Bonding Yes Tack Free Time / Skin 25 min Formation at 23°C/73°F Brookfield 9000 cP Viscosity Cured Product 7 days at $23 \pm 1/2^{\circ}$ and $50 \pm 1/25\%$ humidity

7 days at 23+/-2°C and 50+/-5% numidity				
Color		Red		
Density	BS ISO 2781	1.08 g/cm3		
Elongation at Break	ISO 37	220 %		
Hardness IRHD	BS ISO 48	24		
Hardness Shore A	ASTM D 2240-95	25		
Linear Coefficient of Thermal Expansion (ppm/°C)		300 ppm/°C		
Max Working Temp		250 °C / 482 °F		
Min Working Temp		-65 °C / -85 °F		
Tensile Strength	ISO 37	0.9 N/mm2 / 131 psi		
Thermal Conductivity		0.2 W/mK		
Volume Coefficient of Thermal Expansion (ppm/°C)		902 ppm/°C		

Electrical Properties

Dielectric Strength kV/mm	ASTM D-149	16.1 kV/mm / 409 V/mil
Volume Resistivity (Ohms cm)	ASTM D-257	>1E+13 ohms cm

Storage

Max Storage Temperature	40 °C / 104 °F
Shelf Life	9 mths

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