# **TECHNICAL DATA SHEET**



## AS1723 1 Part Non-Corrosive Neutral Cure Adhesive Sealant and Potting Material (Electronic Grade)

#### Description

This is a non-corrosive, neutral cure, 1-part, RTV (Room Temperature Vulcanising) silicone adhesive sealant. It is one in a range of Alkoxy cure products which are solvent free. It exhibits excellent primerless adhesion to many substrates and cures at room temperature when in contact with atmospheric moisture to form a tough rubber. This product will not corrode copper or its alloys and is suitable for use with electronic components.

### Key Features

- Self levelling
- Low odour
- Non corrosive
- Suitable for sensitive substrates

#### Application

Suitable for sensitive substrates

#### 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"

It is important to check the compatibility in premininary tests if unknown substrates are used.

### 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	11 Jun 2021
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Property Uncured Product Appearance Cure Profile Cure Through to 3 mm Depth Cure Type Rheology Self Bonding Tack Free Time / Skin	Test Method	Value Viscous liquid 23+/-2°C and 50+/-5% humidity 24 hr Alkoxy Self Level Yes
Formation at 23°C/73°F Viscosity Mixed	Brookfield	11 min 72000 cP
Cured Product 7 days at 23+/-2°C and 50+/- 100% Modulus (N/mm2) Color Density Elongation at Break Hardness Shore A	BS ISO 2781 ISO 37 ASTM D	0.43 MPa / 62 psi Translucent 1.03 g/cm3 216 % 28
Linear Coefficient of Thermal Expansion (ppm/°C) Max Working Temp Min Working Temp Tensile Strength Thermal Conductivity Volume Coefficient of Thermal Expansion (ppm/°C) Youngs Modulus (N/mm2)	2240-95 ISO 37	295 ppm/°C 200 °C / 392 °F -50 °C / -58 °F 1 N/mm2 / 145 psi 0.2 W/mK 884 ppm/°C 0.3 N/mm2 / 44 psi
Electrical Properties Dielectric Constant Dielectric Strength (V/mil) Dielectric Strength kV/mm Dissipation Factor Volume Resistivity (Ohms cm)	ASTM D-150	>457 V/mil >18 kV/mm / 0 V/mil
Storage Max Storage Temperature Shelf Life		40 °C / 104 °F 12 mths

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