

AS1740R

1 Part Non-Corrosive Neutral Cure Adhesive Sealant, Coating 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

- UL recognised in file No. E334038
- Contains UV tracer for visual inspection
- Self levelling, adhesive liquid

Application

Including but not limited to, protecting car engine number, fibre optic cables, sealing cable entry into distribution box

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 preliminary tests if unknown substrates are used.

Health & Safety

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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 17 May 2024
Revision No 2
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Property

Uncured Product

Property	Test Method	Value
Appearance		Viscous liquid
Cure Profile		23+/-2°C and 65+/-5% humidity
Cure Through to 3 mm Depth		72 hr
Cure Type		Alkoxy
Rheology		Self Level
Self Bonding		Yes
Tack Free Time / Skin Formation at 23°C/73°F		18 min
UV Trace		Yes
Viscosity Mixed	Brookfield	55000 - 70000 cP

Cured Product

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

Property	Test Method	Value
Color		Translucent
Density	BS ISO 2781	1.03 g/cm ³
Elongation at Break	ISO 37	400 %
Hardness Shore A	ASTM D 2240-95	27
Linear Coefficient of Thermal Expansion (ppm/°C)		294 ppm/°C
Max Working Temp		200 °C / 392 °F
Min Working Temp		-62 °C / -80 °F
Tensile Strength	ISO 37	2.5 N/mm ² / 363 psi
Thermal Conductivity		0.18 W/mK
UL File No.		E334038
Volume Coefficient of Thermal Expansion (ppm/°C)		883 ppm/°C
Electrical Properties		
Dielectric Constant	ASTM D-150	2.6
Dielectric Strength (V/mil)		457 V/mil
Dissipation Factor	ASTM D-150	0.0019
Volume Resistivity (Ohms cm)	ASTM D-257	2.25E+15 ohms cm

Storage

Max Storage Temperature	40 °C / 104 °F
Shelf Life	6 mths

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