

## AS1721

### 1 Part RTV silicone adhesive sealant self levelling non corrosive

#### Introduction

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

- Good adhesion to most substrates
- Non-corrosive
- Controlled flow properties
- Low odour

#### 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 and Safety

Safety Data Sheets available on request.

#### Packaging

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

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#### Property

##### Uncured product

Property	Test Method	Value
50g Spread Diameter mm		105 mm
Appearance		Viscous liquid
Cure Type		Alkoxy
FDA	CFR (21) 177.2600	No
Max Cure Hrs @ 25 °C		36 hrs
Rheology		Self Level
Self Bonding		Yes
Tack Free Time mins		10 mins
Viscosity A-Part mPas	Brookfield	95000 mPas

##### Cured product

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

CTE Linear ppm/°C		294 ppm/°C
CTE Volumetric ppm/°C		883 ppm/°C
Colour		Black
Duro Shore A	ASTM D 2240-95	27
Elongation %	ISO 37	320 %
Linear Shrinkage %		1 %
Max Working Temp +°C	AFS_1540B	200 °C
Min Working Temp - °C		-50 °C
Modulus @ 100% Strain MPa		0.39 MPa
Modulus Youngs MPa		0.27 MPa
SG	BS ISO 2781	1.08
Tensile MPa	ISO 37	1.21 MPa
Thermal Conductivity W/mK		0.2 W/mK
UL 94V-0		No

#### Storage

Max storage temperature °C	40 °C
Shelf life	12 mths

#### Electrical properties

Dielectric Constant @ 1kHz	ASTM D-150	2.6
Dielectric Strength kV/mm	ASTM D-149	18 kV/mm
Dissipation Factor @ 1kHz	ASTM D-150	0.0025
Volume Resistivity ohms cm	ASTM D-257	2.85E+15 ohms cm

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