

## AS1523

### 1-part RTV silicone adhesive sealant self levelling high strength

#### Introduction

This is a 1-part, RTV (Room Temperature Vulcanising) silicone adhesive sealant. It is one in a range of Acetoxy cure products which are solvent free. During cure, it liberates a very small amount of acetic acid, giving rise to the familiar 'vinegar' odour, which quickly dissipates after cure. It exhibits good primerless adhesion to many substrates and cures rapidly at room temperature when in contact with atmospheric moisture. This product is not to be recommended for use with copper and its associated alloys or in electronic assemblies.

#### Key Features

- Fast room temperature cure
- Very high elongation
- High strength sealant
- Good adhesion to most 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"

#### 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	Test Method	Value
<b>Uncured product</b>		
50g Spread Diameter mm		125 mm
Appearance		Translucent viscous liquid
Cure Type		Acetoxy
Extrusion Rate g/min		217 g/min
FDA	CFR (21) 177.2600	Yes
Max Cure Hrs @ 25 °C		14 hrs
Rheology		Flowable
Self Bonding		Yes
Tack Free Time mins		11 mins
Viscosity A-Part mPas	Brookfield	70000 mPas
<b>Cured product</b>		
<b>After 7 days cure at 23° +/-2° C and 50+/-5% humidity</b>		
CTE Linear ppm/°C		285 ppm/°C
CTE Volumetric ppm/°C		854 ppm/°C
Colour		Translucent
Duro Shore A	ASTM D 2240-95	25
Elongation %	ISO 37	655 %
Linear Shrinkage %		1 %
Max Working Temp +°C	AFS_1540B	250 °C
Min Working Temp - °C		-50 °C
Modulus @ 100% Strain MPa		0.46 MPa
Modulus Youngs MPa		0.85 MPa
SG	BS ISO 2781	1.09
Tear kN/m	BS ISO 34-1	12 kN/m
Tensile MPa	ISO 37	4.9 MPa
Thermal Conductivity W/mK		0.2 W/mK
UL 94V-0		No
<b>Storage</b>		
Max storage temperature °C		40 °C
Shelf life		12 mths
<b>Electrical properties</b>		
Dielectric Constant @ 1kHz	ASTM D-150	3
Dielectric Strength kV/mm	ASTM D-149	18 kV/mm
Dissipation Factor @ 1kHz	ASTM D-150	0.0026
Surface Resistivity ohms	ASTM D-257	9.00xE+14 ohms
Volume Resistivity ohms cm	ASTM D-257	3.20E+15 ohms cm

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