

## AS1522 1 Part RTV silicone adhesive sealant flowable

### 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 temp cure
- Deep section cure
- Low viscosity

### 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

50g Spread Diameter mm  
Appearance  
Cure Type  
FDA  
Max Cure Hrs @ 25 °C  
Rheology  
Self Bonding  
Tack Free Time mins  
Viscosity A-Part mPas

### Test Method

CFR (21) 177.2600

Brookfield

### Value

**170 mm**  
**Translucent liquid**  
**Acetoxy**  
**No**  
**4 hrs**  
**Flowable**  
**Yes**  
**10 mins**  
**7000 mPas**

#### Cured product

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

CTE Linear ppm/°C **303 ppm/°C**  
CTE Volumetric ppm/°C **910 ppm/°C**  
Colour **Translucent**  
Duro Shore A **22**  
Elongation % **165 %**  
Linear Shrinkage % **0.8 %**  
Max Working Temp +°C **250 °C**  
Min Working Temp - °C **-50 °C**  
Modulus @ 100% Strain MPa **0.2 MPa**  
Modulus Youngs MPa **0.31 MPa**  
SG **1**  
Tear kN/m **3.14 kN/m**  
Tensile MPa **0.7 MPa**  
Thermal Conductivity W/mK **0.2 W/mK**  
UL 94V-0 **No**

#### Storage

Max storage temperature °C **40 °C**  
Shelf life **24 mths**

#### Electrical properties

Dielectric Constant @ 1kHz **3**  
Dielectric Strength kV/mm **18.0 kV/mm**  
Dissipation Factor @ 1kHz **0.0025**  
Surface Resistivity ohms **3E+16 ohms**  
Volume Resistivity ohms cm **1E+16 ohms cm**

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