

AS5701

1 Part RTV silicone adhesive sealant paste general purpose 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

- Non-corrosive
- Excellent adhesion to most substrates
- Suitable for polycarbonates and sensitive materials
- High temperature resistance

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

Appearance
Cure Type
Extrusion Rate g/min
FDA
Max Cure Hrs @ 25 °C
Rheology
Self Bonding
Tack Free Time mins

Test Method

CFR (21) 177.2600

Value

Thixotropic paste
Alkoxy
130 g/min
No
24 hrs
Paste
Yes
10 mins

Cured product

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

CTE Linear ppm/°C **232 ppm/°C**
CTE Volumetric ppm/°C **697 ppm/°C**
Colour **Black**
Duro Shore A **37**
Elongation % **450 %**
Max Working Temp +°C **260 °C**
Min Working Temp - °C **-60 °C**
Modulus Youngs MPa **0.27 MPa**
SG **1.5**
Tensile MPa **2.4 MPa**
Thermal Conductivity W/mK **0.5 W/mK**
UL 94V-0 **No**

Storage

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

Electrical properties

Volume Resistivity ohms cm ASTM D-257 **6.0E+15 ohms cm**

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