

AS5702 1 Part General Purpose Sealant

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

- Non corrosive
- Excellent adhesion to most substrates
- Suitable for polycarbonate and acrylic
- Non slumping paste

Application

Electronics, solar and photovoltaic panel assembly

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.

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Revision No 2
Download Date 27 Apr 2024

Property

Uncured Product

Appearance

Cure Profile

Cure Through to 3 mm Depth

Cure Type

Extrusion Rate g/min

Rheology

Self Bonding

Slump

Tack Free Time / Skin Formation at 23°C/73°F

Test Method Value

Thixotropic paste

23+/-2°C and 50+/-5% humidity

24 hr

Alkoxy

190 g/min

Paste

Yes

1 mm/5mins

15 min

Cured Product

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

Color

Density

Elongation at Break

Hardness Shore A

Max Working Temp

Min Working Temp

Tensile Strength

Thermal Conductivity

Youngs Modulus (N/mm2)

Translucent

BS ISO 2781 1.03 g/cm3

ISO 37 540 %

ASTM D 2240-95 24

200 °C / 392 °F

-60 °C / -76 °F

ISO 37 2.7 N/mm2 / 392 psi

0.2 W/mK

0.38 N/mm2 / 55 psi

Electrical Properties

Dielectric Constant

Dissipation Factor

Volume Resistivity (Ohms cm)

ASTM D-150 3.42

ASTM D-150 0.000144

ASTM D-257 6.2E+15 ohms cm

Storage

Max Storage Temperature

Shelf Life

40 °C / 104 °F

12 mths

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