

AS1701CN

1 Part Non-Corrosive Neutral Cure Adhesive Sealant (Electronic Grade)

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
- Fast skinning

Application

Electronic assemblies, automotive

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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| Property | Test Method | Value |
|--|----------------|---------------------------------------|
| Uncured Product | | |
| Cure Profile | | 23+/-2°C and 50+/-5% humidity |
| Cure Through to 3 mm Depth | | 24 hr |
| Cure Type | | Alkoxy |
| Rheology | | Paste |
| Self Bonding | | Yes |
| Tack Free Time / Skin Formation at 23°C/73°F | | 10 min |
| Cured Product | | |
| Color | | White, black or grey |
| Density | BS ISO 2781 | 1.9 g/cm³ |
| Elongation at Break | ISO 37 | 70 % |
| Hardness Shore A | ASTM D 2240-95 | 58 |
| Max Working Temp | | 220 °C / 428 °F |
| Min Working Temp | | -50 °C / -58 °F |
| Tensile Strength | ISO 37 | 2.6 N/mm² / 377 psi |
| Thermal Conductivity | | 1 W/mK |
| Electrical Properties | | |
| Dielectric Constant | ASTM D-150 | 2.7 |
| Dielectric Strength (V/mil) | | 635 V/mil |
| Dissipation Factor | ASTM D-150 | 0.1 |
| Volume Resistivity (Ohms cm) | ASTM D-257 | 8.33E+16 ohms cm |

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The CHT technical service department is available to offer further information and advice and should it be needed to look at modifying current products or custom formulate a new one to meet your specific requirements. Please contact the technical service department.

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