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AS1803

Characterisation

This is a non-corrosive, neutral cure 1 component RTV silicone adhesive sealant. It is one of a range of acetone 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. The product will not corrode copper or its alloys and is suitable for use with electronic components.

Technical Data

	AS1803		
Viscosity	Paste		
Tibecoity	Mixture		
Cure Type	Acetone		
FDA	No		CFR (21) 177.2600
Max Cure at 25°C	8	h	, ,
Rheology	Soft paste		
Self-bonding	Yes		
Tooling time	4	min	
Colour	White		
Cured product	Elastomer after 7 days at 23 +/- 2°C and 50 +/-5% humidity		
CTE Linear	198	ppm/°C	
CTE volumetric	475	ppm/°C	
Duro Shore A	65		ASTM D 2240-95
Working temperature	-50 to +220	°C	AFS 1540B
Tensile	2.8	MPa	ISO 37
Elongation	94	%	ISO 37
Linear shrinkage	1	%	
SG	2.24		BS ISO 2781
Thermal Conductivity	1.55	W/m*K	
Flame resistance	UL94HB		File No. E334038
	Electrical Properties		
Dielectric constant	4.9	1kHz	ASTM D-150
Dielectric Strength	20	kV/mm	ASTM D-149
Dissipation Factor	0.009	1kHz	ASTM D-150
Volume resistivity	1.00E+14	Ω cm	ASTM D-257



	Adhesion testing		
Lap shear aluminium	6	kg/cm²	ASTM D1002
Lap shear copper	3	kg/cm ²	ASTM D1002
Lap shear stainless steel	2.6	kg/cm²	ASTM D1002

Storability / Storage

With proper storage the product will have a shelf life of 9 months when stored at <40°C and protected from frost in a dry place, in original unopened containers.

Properties

- -Good thermal conductivity
- -Non-corrosive
- -Fast skinning
- -Low linear shrinkage

The above given values are product describing data. Please consult the 'delivery specification' for binding product specifications. Further data about product properties, toxicological, ecological data as well as data relevant to safety can be found in the safety data sheet.

Application Technique

Processing

The product is a ready to use 1 component system. If supplied in cartridges, it can be applied using either manual or pneumatic dosing guns. It can be applied from bulk containers using conventional drum dosing 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 the product as an adhesive, it should be applied to one clean surface and the other clean surface should be brought into contact within 4 minutes. For optimum bond strength, the thickness of the sealant should be at least 1 mm.

The sealant will cure on exposure to atmospheric moisture, ideally between $20 - 30^{\circ}$ C and $40 - 70^{\circ}$ humidity. Time taken for the curing will depend on the thickness of the applied sealant, the humidity and the temperature. Sealant 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 doing of 310 ml cartridges, the recommended pressure is 2.25 - 3.45 bar (40 to 50 psi). Dosing pressure above the recommended limit may lead to gas bypassing the piston, causing spluttering at the nozzle and poor bead quality.

It is very important to check the compatibility in preliminary tests if unknown substances are used.



Safety

Please observe our EC safety data sheets and the safety remarks on our container labels when handling our products. The dangerous goods regulations and the accident prevention regulations of the professional associations must be particularly observed. Keep the EC safety data sheet of the applied product at hand since it provides you with useful instructions for the safe use and disposal of the product as well as actions to be taken in case of accidents.

We reserve the right to modify the product and technical leaflet.

Our department for applied technique is always at your service for further information and advice.

Our technical advice and recommendations given verbally, in writing or by trials are believed to be correct. They are neither binding with regard to possible rights of third parties nor do they exempt you from your task of examining the suitability of our products for the intended use. We cannot accept any responsibility for application and processing methods which are beyond our control.

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