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AS1701

Characterization

This is a non-corrosive, neutral cure, 1-part, RTV silicone adhesive sealant. It is one in a range of alkoxy cure products which are solvent-free. It exhibitis excellent primerless adhesion to many substrates and cures at room temperature when in contact with atmospheric moisture to form a tought rubber. This product will not corrode copper or its alloys and is suitable for use with electronic components

Technical Data

	AS170	1		
	Catalysed I	Vlass		
Cure Type	Alkoxy			
FDA	Nein			CFR (21] 177.2600
Max Cure at 25°C	24		h	
Rheology	Paste			
Self Bonding	Yes	Yes		
Tack Free Time	3	3		
Colour	Black			
	Vulcanisate after 7 da +/- 2°C and 50% +/-			
CTE Linear	230		ppm/°0	
CTE Volumetric	690		ppm/°0	
Duro Shore A	52			ASTM D 2240-95
Working Temp.	-50 - 220		°C	AFS_1540B
Tensile	2.35		MPa	ISO 37
Elongation	200		%	ISO 37
Modulus Youngs	1.8		MPa	
Modulus at 100°C	2.1		MPa	
Tear	19.1		kN/m	BS ISO 34-1
Linear Shrinkage	1		%	
SG	1.28			BS ISO 2781
Thermal Conductivity	0.6		W/m*k	<
	Electrical properties			
Dielectric Breakdown Voltage	33.33	kV		
Dielectric Constant	2.92	1kHz		ASTM D-150
Dielectric Strenght	>18 kV/mm			ASTM D-149
Dissipation Factor	0.0012	1kHz		ASTM D-150
Surface Resistivity	3.8E+16	Ohm		
Volume Resistivity	7.85E+15	Ohm*cm	1	ASTM D-257



	Adhesion testing		
Lap Shear Aluminium	10.78	kg/cm²	ASTM D1002
Lap Shear Copper	10.06	kg/cm²	ASTM D1002
Lap shear Polycarbonate Steel	5.93	kg/cm²	ASTM D1002
Lap Shear Stainless Steel	2.6	kg/cm²	ASTM D1002

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.

Storability / Storage

If stored properly at 40 °C at the most and protected from frost in a dry place in closed original containers, the product will hold for approx. 12 months.

Key Features

- Non-corrosive
- Excellent adhesion to most substrates
- Fast skinning

Application Technique

Processing

This product is a ready for use 1 componet system. If supplied in cartridges, it can be applied using either manual or pneumatic dosing guns. It can also 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 normally not required. If using the product 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 above. For optimum bond strength, the thickness of the sealant joint should be at least 1 mm.

The sealant will cure upon exposure to atmospheric moisture, ideally between 20 - 30 °C and 40 - 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). Dosing pressure above the recommended limits may lead to gas bypassing the piston, causing spluttering at the nozzle and poor bead quality.

It is absolutely important to check the compatibility in preliminary tests if unknown substrates 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 for 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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