AS1723

Characterization

AS1723 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

Key Features:

-Self levelling

-Low odour

-Suitable for sensitive substrates

Technical Data

	AS1723		
Viscosity	72,000	mPa.s	
	Mixture		
Cure Type	Alkoxy		
Max Cure @ 25°C	24	h	
Rheology	Self level		
Self Bonding	Yes		
Tack Free Time	11	Mins	
Colour	Translucent		
Cured product	**After 7 days cure at 23°C +/- 2°C and 50% +/-5% humidity**		
CTE Linear	295	ppm/°C	
CTE Volumetric	884	ppm/°C	
Duro Shore A	28		ASTM D 2240-95
Working Temp.	-50 – 200	°C	AFS_1540B
Tensile	1	MPa	ISO 37
Elongation	216	%	ISO 37
Modulus Youngs	0.3	MPa	
Modulus @ 100% Strain	0.43	MPa	
SG	1.03		BS ISO 2781
Thermal Conductivity	0.2	W/m*K	

	Electrical properties		
Dielectric Constant	2.72	1kHz	ASTM D-150
Dielectric Strenght	>18	kV/mm	ASTM D-149
Dissipation Factor	0.0011	1kHz	ASTM D-150
Volume Resistivity	4.71E+15	ohms*cm	ASTM D-257

Storability / Storage

When proper storage approx. 12 months if stored properly max. at 40°C and protected from frost anddry in closed original containers.

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

AS1723 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 surface 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 whitin the tack free time stated opposite. For optimum bond strength, the thinkness 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 thinkness of the joint, humidity and temperature. Loints 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 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.

Edition: July 2019
CHT Germany GmbH
Postfach 12 80, 72002 Tübingen, Bismarckstraße 102, 72072 Tübingen, Germany
Telephone: 07071/154-0, Fax: 07071/154-290, Email: info@cht.com, Homepage: www.cht.com