

# Silcoset 151 (Silcoset 151) 1 Part self levelling high temperature FDA compliant adhesive sealant

### Introduction

Silcoset 151 is a ready-to-use adhesive sealant, which reacts with atmospheric moisture to form a resilient rubber, which remains flexible over a very wide temperature range.

Silcoset 151 liberates a very small amount of acetic acid during cure which gives rise to the familiar "vinegar" odour, which quickly dissipates after cure.

These high specification sealants are ideal for a myriad of engineering applications from production work to fast, effective maintenance and on-the-spot repairs. They are applied directly from the cartridge and cure at room temperature. Under typical ambient conditions they develop a tack free surface in approximately 15 minutes and cure within 24 hours.

### **Key Features**

- Flexibility form 60 to +300°C
- resistant to solvents and chemicals
- > Good electrical insulation properties
- > Excellent bonding to a wide range of substrates

#### Use and Cure Information How to Use

**Silcoset 151** is ready for use. If supplied in cartridges it can be applied using either manual or pneumatic dispensers. It can also be applied from bulk containers using conventional drum dispensing equipment

### Application and Cure

All surfaces to which the adhesive is to be applied should be clean, dry and free from grease, dirt, and loose material.

Priming of surfaces is not normally required.

If being employed as an adhesive, it should be applied to one clean surface and the other clean surface brought into contact with it within 5 minutes.

For optimum bond strength the thickness of the sealant joint is 1 to 2mm.

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"

Property	Test Method	Value	
Uncured Product			
Colour:		White	
Appearance:	White vis	White viscous liquid	
Tack Free Time:		10 minutes *	
3mm Cure Through:		<12 hours*	
Extrusion Rate:		92g / minute	
Viscosity		210000 mPas	
* measured at 23±/-2°C an	d 65% relative humic	ditv.	

measured at 23+/-2°C and 65% relative humidity.

#### **Cured Elastomer**

°C and 65% relative	e humidity)
BS903 Part A2	2.93 MPa
BS903 Part A2	180 %
	1.59 MPa
BS903 Part A2	1.71 MPa
BS903 Part A3	6.20 kN/m
ASTM D 2240-95	43° Shore A
BS 903 Part A1	1.14
	<0.5%
	0.20 W/mK
	892 ppm / °C
	297 ppm / °C
	-60 °C
AFS 1540B	300 °C
	BS903 Part A2 BS903 Part A2 BS903 Part A2 BS903 Part A3 ASTM D 2240-95 BS 903 Part A1

### **Electrical Properties**

Volume Resistivity:	ASTM D-257	3.49E+16Ω.cm
Surface Resistivity:	ASTM D-257	4.35E+15Ω
Dielectric Strength:	ASTM D-149	20 kV/mm
Dielectric Constant at 1MHz:	ASTM D-150	3.5
Dissipation Factor at 1MHz:	ASTM D-150	2.5E-3

## **Adhesion Testing**

Good unprimed adhesion to many substrates including glass stainless steel, aluminium and most plastics. Customers are advised to carry out their own tests on clean, degreased substrates to ensure satisfactory adhesion is achieved.

All values are typical and should not be accepted as a specification.

**Health and Safety** - Material Safety Data Sheets available on request.

**Packages** - 310 ml cartridges. Arrangements can be made to supply in bulk containers.

**Storage and Shelf Life** – Expected to be **24** months in original, unopened containers below 40°C.

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