

# Silcoset 152 (Silcoset 152) 1 Part high temperature thixotropic adhesive sealant

Silcoset 152 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 152 liberates a very small amount of acetic acid during cure which gives rise to the familiar "vinegar" odour, which quickly

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**

Introduction

dissipates after cure.

- Flexibility from -60 to + 300°C
- > Excellent bonding to a wide range of substrates
- Good electrical insulation

## Use and Cure Information How to Use

**Silcoset 152** 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 paste
Tack Free Time: 2 minutes \*
3mm Cure Through: 7 hours\*
Extrusion Rate: 225g / minute
Viscosity mPas

#### **Cured Elastomer**

(after 7 days cure at 23+/-2°C and 65% relative humidity) Tensile Strength: BS903 Part A2 2.31 MPa BS903 Part A2 240 % Elongation at Break: Youngs Modulus: 0.75 MPa Modulus at 100% Strain: BS903 Part A2 1 MPa BS903 Part A3 Tear Strength: 6.1 kN/m Hardness: ASTM D 2240-95 40° Shore A

Specific Gravity: BS 903 Part A1 1.08
Linear Shrinkage: <1.0%
Thermal Conductivity: 0.2 W/mK

Coefficient of Thermal

Expansion:
Volumetric
Linear
Min. Service Temperature:
Max. Service Temperature:
AFS 1540B

876 ppm / °C
292 ppm / °C
-60 °C
300 °C

## **Electrical Properties**

Volume Resistivity:	ASTM D-257	3.21E+15Ω.cm
Surface Resistivity:	ASTM D-257	3.46E+14Ω
Dielectric Strength:	ASTM D-149	kV/mm
Dielectric Constant at 1MHz:	ASTM D-150	3.6
Dissipation Factor at 1MHz:	ASTM D-150	0.8E-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.

Revision Date: 12/12/2005

The information and recommendations in this publication are to the best of our knowledge reliable. However nothing herein is to be construed as a warranty or representation. Users should make their own tests to determine the applicability of such information or the suitability of any products for their own particular purposes. Statements concerning the use of the products described herein are not to be construed as recommending the infringement of any patent and no liability for infringement arising out of any such use is to be assumed.

<sup>\*</sup> measured at 23+/-2°C and 65% relative humidity.