

AS1603 (1040N) 1 Part low corrosive thixotropic adhesive sealant

Introduction

AS1603 is a fast cure 1-part RTV silicone sealant specially formulated for applications requiring a combination of good adhesion, excellent physical and non-corrosive properties. The Oxime based cure system produces excellent physical properties and good adhesion particularly to plastics and many other substrates. Although not totally neutral the cured sealant is very low corrosive in nature.

Key Features

- Thixotropic Paste
- Low corrosion
- Primerless adhesion to most plastics
- Low odour

Use and Cure Information

How to Use

AS1603 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 **AS1603** is to be applied should be clean, dry and free from grease, dirt, and loose material.

Priming of surfaces is not normally required.

If it is being employed as an adhesive, it should be applied to one clean surface and the other clean surface brought into contact with it within 30 to 60 seconds.

The recommended thickness of the sealant joint is 1 to 3mm for optimum bond strength.

Joints should be left undisturbed for at least 24 hours, but preferably longer to effect sufficient depth of cure. Full cure requires 7 days.

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Property	Test Method	Value
Uncured Product		
Colour:		Translucent
Appearance:		Translucent
Paste		
Tack Free Time:		5 minutes *
3mm Cure Through:		12 hours *
Extrusion Rate:		390 g / minute
Viscosity		mPas
* measured at 23+/-2°C and 65% relative humidity.		

Cured Elastomer (after 7 days cure at 23+/-2°C and 65% relative humidity)		
Tensile Strength:	BS903 Part A2	2.15 MPa
Elongation at Break:	BS903 Part A2	300 %
Youngs Modulus:		0.60 MPa
Modulus at 100% Strain:	BS903 Part A2	0.80 MPa
Tear Strength:	BS903 Part A3	4.80 kN/m
Hardness:	ASTM D 2240-95	33° Shore A
Specific Gravity:	BS 903 Part A1	1.07
Linear Shrinkage:		<0.80%
Thermal Conductivity:		0.20 W/mK
Coefficient of Thermal Expansion:		
Volumetric		888 ppm / °C
Linear		295 ppm / °C
Min. Service Temperature:		-50 °C
Max. Service Temperature:	AFS 1540B	220 °C

Electrical Properties

Volume Resistivity:	ASTM D-257	8.7E+15 Ω.cm
Dielectric Constant at 1MHz:	ASTM D-150	3.0
Dissipation Factor at 1MHz:	ASTM D-150	2.5E-3

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 12 months in original, unopened containers below 40°C.

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