

AS1821 (1080B) 1 Part neutral self levelling adhesive sealant

Introduction

AS1821 is a non-corrosive, 1-part, room temperature vulcanising (RTV) silicone rubber.

It is one of a new family of products called acetone cure sealants that are solvent free.

It exhibits excellent primerless adhesion to many substrates.

The product is cured rapidly in contact with atmospheric moisture to a tough rubber.

It does not corrode copper or its alloys and exhibits excellent primerless adhesion when fully cured.

Key Features

- Non corrosive
- Fast cure
- > Low linear shrinkage
- Solvent free

How to Use

AS1821 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 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 within 15 to 20 seconds.

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.

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

Packages - 75 ml and 310 ml cartridges. Arrangements can be made to supply in bulk containers.

Storage and Shelf Life – Expected to be **12** months in cartridges and 9 months in bulk, unopened containers.

Property	Test Method	Value
Uncured Product		
Colour:		Black
Appearance:		Black viscous
liquid		
Tack Free Time:		10 minutes *
3mm Cure Through:		<24 hours *
Extrusion Rate:		g / minute
Viscosity		20000 mPas

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

Cured Flastomer

Our ca Liactorrici		
(after 7 days cure at 23+/-2	°C and 65% relative	e humidity)
Tensile Strength:	BS903 Part A2	0.85 MPa
Elongation at Break:	BS903 Part A2	200 %
Youngs Modulus:		
Modulus at 100% Strain:	BS903 Part A2	0.50 MPa
Tear Strength:	BS903 Part A3	3.0 kN/m
Hardness:	ASTM D 2240-95	27° Shore A
Specific Gravity:	BS 903 Part A1	1.07
Linear Shrinkage:		0.50%
Thermal Conductivity:		0.20W/mK
Coefficient of Thermal		
Expansion:		
Volumetric		906 ppm / °C
Linear		302 ppm / °C

Floctrical	Droportice

Min. Service Temperature:

Max. Service Temperature: AFS 1540B

Volume Resistivity:	ASTM D-257	5.4E+15Ω.cm
Surface Resistivity:	ASTM D-257	1.80E+11Ω
Dielectric Strength:	ASTM D-149	>20kV/mm
Dielectric Constant at 1MHz:	ASTM D-150	2.88
Dissipation Factor at 1MHz:	ASTM D-150	0.5E-3

-50°C

220 °C

Adhesion Testing

Overlap Shear Strength:	ASTM D 1002	kg/cm ²
Copper		6.50
Aluminium		5.90
Stainless Steel 304		3.50
Polycarbonate		

Customers are advised to carry out their own tests on clean, degreased substrates to ensure satisfactory adhesion is achieved

Stress cracking can appear on some grades of polycarbonate. Customers are advised to carry out initial testing to ensure product compatibility.

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

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