

## AS2700 2-Part Adhesive Sealant

### Introduction

AS2700 is a two part, non corrosive condensation curing adhesive silicone paste specifically designed to provide fast cure and adhesion at room temperature. It features a convenient mixing ratio of 10 to 1 by volume for manual cartridge dispensing or machinery dispensing, excellent adhesion and compatibility with many sensitive substrates including copper, brass, steel, aluminium, FR4, and polycarbonate making this an ideal option where fast curing and adhesion are needed.

### Key Features

- 10:1 volumetric ratio for machine or cartridge dispensing
- Fast curing at room temperature
- 20 minutes of working time at room temperature
- Adhesion to many substrates

### Use and Cure Information

#### How to Use

AS2700 is supplied as two components, AS2700A and AS2700B packaged in a 10 to 1 ratio twin cartridge. AS2700 is also suitable for machine dispensing. The dispensing machine must be set to deliver 10 parts of A and 1 part of B by VOLUME, through a static mixing nozzle and then applied to the substrate. IMPORTANT the mixed components will cure in the nozzle so to preserve nozzles a continuous process is required or a change of nozzle after the task is completed. A nozzle of at least 20 folds is recommended for uniform mixing of both components. Dispensing by weight requires 13 parts of A and 1 part of B.

Automated dispensing machinery is available through ACC silicones, please discuss with your Regional Sales Manager.

#### Application and Cure

Ensure the surface is clean and dry (recommend using ACC Degrease or Isopropanol) before applying the AS2700 package. Complete mixing of each component is achieved within the first 50-60% of the nozzle. The extruded sealant should be applied to the substrate immediately and tooled within 20 minutes.

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### Property

#### Uncured Products

Property	Test Method	Value
Colour:	A Part	White
	B Part	Black
Appearance:	A Part	Paste
	B Part	Liquid
SG:	A Part	1.30
	B Part	1.00
Viscosity mPa.s:	A Part	550000
	B Part	64000
Tack Free Time:		20 minutes *
Cure to handle:		50 minutes *

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

#### Cured Elastomer

**(after 7 days cure at 23+/-2°C and 45 to 55% relative humidity)**

Tensile Strength:	BS903 Part A2	2.05 MPa
Elongation at Break:	BS903 Part A2	240 %
Youngs Modulus:		0.90 MPa
Hardness:	ASTM D 2240-95	39 Shore A
Specific Gravity:	BS 903 Part A1	1.25
Thermal Conductivity:		0.30 W/mK
Coefficient of Thermal Expansion:		
Volumetric		744 ppm / °C
Linear		248 ppm / °C
Min. Service Temperature:		-50 °C
Max. Service Temperature:	AFS 1540B	+200 °C

### Electrical Properties

Volume Resistivity:	ASTM D-257	1.1E+14Ω.cm
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### Adhesion

Ensuring all substrates are clean are free of surface contaminates. ACC 52 degreaser is recommended for metallic substrates and iso-propanol solvent is recommended for plastics and polycarbonates. AS2700 will develop a mechanical bond to the substrates within 50 minutes of applying. A chemical bond will develop after 24 hours and maximum adhesion is reached after 5 days

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

**Packages** – 264 ml 10 to 1 twin cartridges, Please discuss with your regional sales manager for alternative packing options for machinery dispensing.

**Storage and Shelf Life** – Expected to be 12 months in original, unopened containers below 30°C.

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