

AS2700

2 Part RTV silicone adhesive sealant paste non corrosive fast cure

Introduction

This is a novel twin pack system, which consists of a 1-Part RTV Silicone Sealant and an accelerator in a 10:1 mix ratio. By extruding the system through a static mixer nozzle, the intimately mixed material behaves like a conventional silicone sealant, but has the advantage of very rapid cure - less than 3 hours to almost full cure, allowing for very fast assembly. The sealant will cure anaerobically (without atmospheric moisture) in approximately 2 hours which is not possible with a conventional 1-Part RTV sealant.

Key Features

- 10 : 1 volumetric ratio for machine or cartridge dispensing
- Very fast room temp cure
- 20 minutes of working time at room temperature
- Good adhesion to most substrates

Use and Cure Information

This product is supplied as a twin pack 10:1 system.

When supplied in bulk containers A & B parts should be mixed at a ratio of 10:1 by volume using an automated machine with a static mixer nozzle. **IMPORTANT:** Mixed material in the mixer nozzle will cure quickly, therefore a continuous application process will avoid wasted material. A mixer nozzle of at least 9 GXF type elements is recommended for uniform mixing of both components.

The product can also be supplied in a high-quality twin cartridge system, the A part in a 240ml cartridge and the B part in a 24ml integral cartridge. To facilitate removal of the protective, plug a metal removable disc is located above the locking nut. The action of unscrewing the locking nut removes the plug. The static mixer nozzle is placed on the outlet and locked into place using the locking nut. (13mm). The stepped outlet of the static mixer nozzle is normally cut back 2 or 3 steps before fitting the cartridge into the dispensing gun*. The cartridge is then located in the gun and pressed to click into place.

The sealant is extruded by applying a steady pressure to the trigger. In the case of the manually operated dispenser, full depression of the trigger should be maintained for as long as possible before releasing and reapplying trigger pressure. Complete mixing of each component is achieved within the first 50-60% of the nozzle.

All substrate surfaces should be clean and free of grease, the mixed sealant should be applied to one surface and contact made immediately, any additional tooling should be carried out within the tack free time shown opposite. Full cure times will vary slightly depending on the joint dimensions.

* Excellent dual cartridge dispensers both manual and pneumatic are available from Sulzer Mixpac (UK) Limited – Ref DSM200.

Health and Safety

Safety Data Sheets available on request.

Packaging

ACC Adhesives are available in a variety packaging including cartridges and bulk containers. Please contact our sales department for more information.

Revision Date : 02/11/2017

Download Date : 16/01/2019

Property

Uncured product

Property	Test Method	Value
Appearance		Thixotropic paste
Colour A Part		White
Colour B Part		Black
Cure Type		Condensation
Extrusion Rate g/min		105 g/min
FDA	CFR (21) 177.2600	No
Max Cure Hrs @ 25 °C		0.83 hrs
Mix Ratio		10:1
Rheology		Paste
Self Bonding		Yes
Tack Free Time mins		20 mins
Viscosity A-Part mPas	Brookfield	380000 mPas
Viscosity B-Part mPas	Brookfield	26000 mPas
Viscosity Mixed mPas	Brookfield	342000 mPas

Cured product

After 7 days cure at 23° +/-2° C and 50+/-5% humidity

CTE Linear ppm/°C		256 ppm/°C
CTE Volumetric ppm/°C		768 ppm/°C
Colour		Grey
Duro Shore A	ASTM D 2240-95	39
Elongation %	ISO 37	232 %
Max Working Temp +°C	AFS_1540B	200 °C
Min Working Temp - °C		-50 °C
Modulus Youngs MPa		0.87 MPa
SG	BS ISO 2781	1.25
Tensile MPa	ISO 37	2 MPa
Thermal Conductivity W/mK		0.3 W/mK
UL 94V-0		No

Storage

Max storage temperature °C		30 °C
Shelf life		12 mths

Electrical properties

Volume Resistivity ohms cm	ASTM D-257	1.1E+14 ohms cm
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