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Technical Data Sheet n° SIL 02 300 3 – February 2004 Cancels and replaces SIL 96 782 3

Flexible adhesive for assembly and sealing

Description	CAF 3 is a one component, flowing silicone elastomer which cures at room temperature on contact with atmospheric humidity.
	The product is:
	Acetic.
	• Flowing.
	Translucent.
Examples of applications	CAF 3 is mainly used in industrial sealing and bonding applications when requiring a flowing product.
	CAF 3 is notably used for:
	- potting and insulation of electronic sensors,
	- bonding of varius materials,
	- general maintenance in industry.
Advantages	CAF 3 is quick curing, has very good mechanical properties and good high temperature resistance.
	CAF 3 therefore provides perfect assembly and complete sealing between different materials subject to thermal stresses.
	CAF 3 also has good resistance to chemical agents.

Characteristics

1 - Processing/curing

1.1. Processing:

Processing is particularly easy, since the products are delivered ready to use. Application can be carried out either manually or using robotic application equipment.

CAF 3 is applied to one of the two joint surfaces and assembled before the product has formed a skin.

It is recommended to apply CAF 3 to clean and dry surfaces.

1.2 Curing:

CAF 3 starts curing as soon as the products come into contact with atmospheric moisture.

Skin formation time*, min. approx	8
Time required to cure 2 mm*, hours, approx	
Cured thickness after 24 h*, mm, approx 4.5	5

^{*}Temperature 23 °C, relative humidity 50 %

The curing rate increases with temperature and hygrometry.



2 - Properties before curing

Appearance flowing paste		
Colourtransluscent		
Odour acetic		
Specific gravity at 23 °C		
Flowability, min		
Brookfield viscosity; mPa.s		
3 – Cured product properties		
3.1 Specific gravity at 23 °C		
3-2 Mechanical properties after 7 days at room temperature (Measured on a 2 mm thick film) :		
Shore A hardness		
Modulus at 100 % elongation, MPa		
Tensile strength, MPa		
Elongation at break, %		
Tear strength, kN/m		
3.3 Thermal properties:		
- Lower usage temperature limit Brittle point:		
Temperature range in continuous use (on a 2 mm thick film, 1000 h) :+200°C		
- Maximum peak recommended temperature: +225°C (on a 2 mm thick film, 72 h)		



CAF®3

N.B: These values are not absolute limits, but the range within which variations in mechanical properties are not reduced by more than 50 %.

In the case of exposure for periods shorter than 72 h, the product withstands higher peak temperatures.

3.4 Adhesion properties:

	Shear strength (1 mm thick joint, curing 7d at 23 °C, NMRPS 748)
	- on glass
	- on aluminium AG3 0.5
	Type of failure 100% cohesive
	 on other surfaces: Self adhesion on enamel, ceramics, epoxy. Adhesion with primer PM 820 and PP 878 on certain plastics. Adhesion with primer 131 on metals.
	3.5 Thermal conductivity:
	- Thermal conductivity at 30 °C, W/m.K, approx 0.2 (Standard NF x 10021)
	- Thermal conductivity at 150 °C, W/m.K, approx 0.15 (Standard NF x 10021)
	3.6 Dielectric properties:
	Dielectric strength, kV/mm19 (Standards NF C 26225, ASTM D 419, IEC 243)
	Dielectric constant at 1 MHz
	Power factor 1 MHz
	Volume resistivity, Ω .cm
Packaging	100 g tubes on pallets of 1600 units.30 liter tins on pallets of 10 units.223 liter drums on pallets of 4 units.
Storage and shelf life	When stored in its original unopened packaging at a temperature of between + 2 °C and + 30 °C, CAF 3 can be used for up to 18 months from its date of manufacture (expiry date). Comply with the storage instructions and expiry date marked on the packaging.
	Past this date, Bluestar Silicones no longer guarantees that the product meets the sales specifications.
Safety	Consult the safety data sheet for CAF 3.



CAF®3

Visit our website www.bluestarsilicones.com



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