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CAF® 4

Flexible adhesive for performance assembly

Description	CAF 4 is a one component silicone elastomer which cures at room temperature:
	Acetic Outstanding
	Self-levelling Off white
	Off-white
Examples of applications	CAF 4 is mainly used in industrial sealing, bonding and coating applications:
	It is notably used for:
	 bonding of plastics in aeronautics,
	• electrical insulation,
	coating of fabrics for thermal protection,
	coating of conveyor belts.
Advantages	CAF 4 is quick curing, has very good mechanical properties, good heat stability and high dielectric properties.
	CAF 4 therefore provides perfect assembly and complete sealing between different materials subject to thermal stresses
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 4 is applied to one of the two joint surfaces and assembled before the product has formed a skin.
	It is recommended to apply CAF 4 to clean and dry surfaces.
	CAF 4 is coated using a spray gun after having been diluted in white spirit or cyclohexane. The ideal viscosity for this is 1000 mPa.s.
	1.2. Curing:
	CAF 4 starts curing as soon as the products come into contact with atmospheric moisture.
	Skin formation time*, min. approx
	Time required to cure 2 mm*, hours, approx 5
	Cured thickness after 24 h*, mm, approx 4.5
	* Temperature 23 °C, relative humidity 50%.

The curing rate increases with temperature and hygrometry.



2. Properties before curing

Appearanceviscous flowing paste
Colour
Odour acetic
Flowability, in min
Brookfield viscosity, mPa.s
Specific gravity at 25 °C
3. Cured product properties
3.1. Specific gravity at 25 °C
3.2. Mechanical properties after 7 days at room temperature:
Shore A hardness
Modulus at 100 % elongation, MPa
Tensile strength, MPa
Elongation at break, %
Tear strength, kN/m 4.5 (Standards ASTM D 624 specimen A, NMRPS 492)
3.3. Thermal properties:
- Lower usage temperature limit
Brittle point: 65°C
Temperature range in continuous use (on a 2 mm thick film, 1000 h): – 60 °C to + 225 °C
- Maximum peak recommended temperature: + 250 °C (on a 2 mm thick film, 72 h)

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:
	- on aluminium AG3 (1 mm thick joint, curing 7d at 23 °C, NMRPS 748)
	Shear strength, MPa 1.2
	Type of failurecohesive
	- on other surfaces:
	Self adhesion on glass, enamel, ceramics, epoxy paint.
	Adhesion with primer: - on polar plastics
	3.5. Thermal conductivity:
	- Thermal conductivity at 30 °C, W/m.K
	3.6. Dielectric properties:
	Dielectric strength, kV/mm
	Dielectric constant at 1 MHz
	Power factor at 1 MHz
	Volume resistivity, Ω.cm
Packaging	- 100 g tubes on pallets of 1600 units.
	- 25 kg tins on pallets of 10 units.
	- 230 kg 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 4 can be used for up to 24 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 4.



CAF® 4

Visit our website www.bluestarsilicones.com



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