

CAF 520

Description	<p>CAF 520 is a one component silicone elastomer curing at Room Temperature:</p> <ul style="list-style-type: none"> • Neutral • Self-adhesive • Thixotrope • Black, translucent.
Examples of applications	<p>CAF 520 is a fast-curing, ready-to-use silicone elastomer suitable for sealing and bonding. It cross-links at room temperature to give a flexible seal.</p> <p>CAF 520 is used for following applications:</p> <ul style="list-style-type: none"> • Sealing and bonding of plastic materials. • Bonding of headlight. • Industrial maintenance. • Domestic appliances. • Electronics. • Solar panels.
Key benefits	<p>CAF 520 combines the advantages of:</p> <ul style="list-style-type: none"> • Primerless adhesion. • Odourless, it is particularly well accepted in the workstation environment. • High cure rate. <p>Its mechanical properties and good adhesion to many surfaces allow perfect assembly and full sealing between materials of different types as glass, metals, ceramics and plastics.</p>

Typical properties	<p>1. Characteristics of the non cured product</p> <table border="1"> <thead> <tr> <th><i>Properties</i></th> <th>CAF 520</th> </tr> </thead> <tbody> <tr> <td>Appearance</td> <td>Non flowing paste</td> </tr> <tr> <td>Odour</td> <td>Alcoxy</td> </tr> <tr> <td>Colour</td> <td>Black, translucent</td> </tr> <tr> <td>Flowability (<i>norms BOEING S7502</i>)</td> <td><3</td> </tr> <tr> <td>Specific gravity (<i>At 25°C, g/cm, approx.</i>)</td> <td>1.02</td> </tr> <tr> <td>Extrusion (<i>3 mm, 3 bars, g/min, average</i>)</td> <td>50</td> </tr> </tbody> </table>	<i>Properties</i>	CAF 520	Appearance	Non flowing paste	Odour	Alcoxy	Colour	Black, translucent	Flowability (<i>norms BOEING S7502</i>)	<3	Specific gravity (<i>At 25°C, g/cm, approx.</i>)	1.02	Extrusion (<i>3 mm, 3 bars, g/min, average</i>)	50
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2. Curing

Skin Formation (<i>At 23°C, 50% HR, minutes</i>)	5-8
Tack-free Time (<i>At 23°C, 50% HR, minutes, approx.</i>)	30

Curing Rate (*At 23°C, 50% HR, approx.*)

2 mm	7 hours
24 hours	4 mm

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3. Characteristics of the cured product on thick film

Shore A Hardness (ISO 868, approx.)	15
Modulus at 100% Elongation (MPa, approx.)	0.3
Tensile Strength (MPa, approx.)	1.1
Elongation at break (% , approx.)	500

4. Thermal properties

Lower usage temperature limit (brittle point, °C, approx.)	- 60°C
Upper usage temperature limit in continuous (Maximum Temperature, °C, approx.)	+150°C
Upper usage temperature limit in peak (Maximum Temperature, °C, approx.)	+180°C

Note: Determined by measuring the mechanical properties and Shore A Hardness before and after treatment. These values aren't absolute limits, but the range within which variations in mechanical properties are not reduced by more than 50%.

5. Adhesion properties

1 mm thick, 7 days curing at 23°C, 50% HR

Glass (MPa, approx.)	0.7
Alu AG3 (MPa, approx.)	0.7
Stainless Steel (MPa, approx.)	0.7
Epoxy-PES paint, on stainless steel (MPa, approx.)	0.6
Polycarbonate (MPa, approx.)	0.4
Type of failure	100% Cohesive

Note: **CAF 520** gives primerless adhesion on numerous other substrates such as: Coated glass, anodised and heat lacquered aluminium, PVC, PMMA.

Please note: The typical properties are not intended for use in preparing specifications. Please contact our local Sales Department for assistance in writing specifications.

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Instruction of use	<p>CAF 520 is ready to use.</p> <p>Processing is particularly easy, since the products are delivered ready to use. Application can be carried out either manually or using robotic application equipment.</p> <p>CAF 520 is applied to one of the two joint surfaces and assembled before the product has formed a skin. It is recommended to apply CAF 520 onto clean & dry surfaces.</p>
Regulation	Please consult your local ELKEM SILICONES sales office.
Limitations	Please consult your local ELKEM SILICONES sales office.
Packaging	Please consult your local ELKEM SILICONES sales office.
Storage and shelf life	<p>When stored in its original packaging:</p> <p>CAF 520 BLACK may be stored at temperatures between -20°C / -4°F and 30°C / 86°F for up to 12 months from its date of manufacturing.</p> <p>CAF 520 TRANSLUCENT may be stored at temperatures between -20°C / -4°F and 30°C / 86°F for up to 12 months from its date of manufacturing.</p> <p>Comply with the storage instructions and expiration date marked on the packaging. Beyond this date, Elkem Silicones no longer guarantees that the product meets the sales specifications.</p>
Safety	Please consult the Safety Data Sheet of: CAF 520 BLACK and CAF 520 TRANSLUCENT

Visit our website www.elkem.com/silicones/

Warning to the users

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