

# CAF 7037 MF

<b>Description</b>	<p><b>CAF 7037 MF</b> is a one component silicone elastomer, which cures at room temperature simply on contact with air humidity.</p> <ul style="list-style-type: none"> <li>• Fluid.</li> <li>• Brick red.</li> <li>• High release capacity.</li> <li>• Neutral, MEKO (Methyl Ethyl Ketoxime) FREE.</li> </ul>
<b>Examples of applications</b>	<p><b>CAF 7037 MF</b> is particularly suited to coating, protection and assembly applications.</p> <ul style="list-style-type: none"> <li>• Continuous coating of conveyor belts.</li> <li>• Insulating of electrical motors.</li> <li>• Sealing of iron bases.</li> <li>• Sealing of air filters.</li> <li>• Silk screening of gaskets.</li> </ul>
<b>Key benefits</b>	<ul style="list-style-type: none"> <li>• Neutral system, solvent free and MEKO free.</li> <li>• Low viscosity for coating applications.</li> <li>• Non-corrosive.</li> <li>• Long pot life.</li> <li>• Excellent thermal ageing</li> <li>• Good dielectric properties.</li> </ul>

## Typical properties

### 1. Properties before curing

Properties	CAF 7037 MF
<b>Appearance</b>	Fluid paste
<b>Colour</b>	Brick red
<b>Cure type</b>	Oximic (MEKO free)
<b>Specific gravity (At 25°C, g/cm<sup>3</sup>, approx.)</b>	1.10
<b>Brookfield viscosity (mPa.s, approx.)</b>	50 000

### 2. Curing

**CAF 7037 MF** starts to cure as soon as the product is brought into contact with atmospheric humidity.

<b>Skin formation time (At 23°C, 50% RH, minutes)</b>	25-30
<b>Cured thickness after 24 h (At 23°C, 50% RH, mm, approx.)</b>	4.0

The cure rate increases with temperature and hygrometry.

Comment: it is recommended to apply the product to clean, dry surfaces.

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### 3. Properties after curing

Mechanical properties after 7 days

<i>Properties</i>	<b>CAF 7037 MF</b>
<b>Hardness Shore A</b> ( <i>DIN53505, approx.</i> )	24
<b>Modulus at 100% elongation</b> , ( <i>ISO37, Mpa, approx.</i> )	0.5
<b>Tensile strength</b> ( <i>ISO37, Mpa, approx.</i> )	2.1
<b>Elongation</b> ( <i>ISO37, %, approx.</i> )	400
<b>Tear strength</b> (kN/m)	5.0

### 4. Thermal Properties

<i>Properties</i>	<b>Temperatures</b>
<b>Temperature limit for use in continuous operating</b> ( <i>on 2 mm-thick film, 1000 h</i> )	- 60°C to + 225°C
<b>Maximum peak temperature recommended in use</b> ( <i>on 2 mm-thick film, 72 h</i> )	+ 250°C

*N.B.: these temperatures values are not absolute limits but the range within which the initial properties are not reduced by more than 50%.*

### 5. Adhesion properties

Lap shear test (1 mm-thick gasket, after curing 14 days at 23°C 50% RH)

<i>Properties</i>	<b>CAF 7037 MF</b>
AG3 aluminum specimen with BLUESIL PM 820 Lap shear strength, MPa	0.9 MPa Cohesive failure

Mainly use a primer as surface promotor to secure adhesion.

Glass, enamel, ceramics, epoxy paint	Primerless self-adhesion
Metals (aluminum, stainless steel)	Primers: BLUESIL PM 131, BLUESIL PM 820
Plastics	Primers: BLUESIL PM 820, BLUESIL PM 824

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## 6. Dielectrical properties

<i>Properties</i>	<b>CAF 7037 MF</b>
Dielectric strength ( <i>kV/mm, approx.</i> )	19
Dielectric constant ( <i>At 1MHz, approx.</i> )	3.0
Dielectric dissipation factor ( <i>At 1MHz, approx.</i> )	$5 \times 10^{-3}$
Volume resistivity ( <i>Ohm/cm, approx.</i> )	$2 \times 10^{15}$

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

<b>Instruction of use</b>	Please consult your local ELKEM SILICONES sales office.
<b>Regulation</b>	Please consult your local ELKEM SILICONES sales office.
<b>Limitations</b>	Please consult your local ELKEM SILICONES sales office.
<b>Packaging</b>	<ul style="list-style-type: none"> <li>• CAF 7037 MF is available in                             <ul style="list-style-type: none"> <li>○ Drum of 210 KG (463.05 LB)</li> <li>○ Pail of 25 KG (55.13 LB)</li> <li>○ Piece of 1 PC</li> </ul> </li> </ul>
<b>Storage and shelf life</b>	When stored in its original packaging: CAF 7037 MF may be stored at temperatures between 2°C / 36°F and 30°C / 86°F for up to 12 months from its date of manufacturing. 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.
<b>Safety</b>	Please consult the Safety Data Sheet of: CAF 7037 MF

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