



CM LM LOW MODULUS **SILICONE SEALANT**

TECHNICAL DATA SHEET

FEBRUARY 2017

DESCRIPTION

CM LM is a one component neutral, moisture cured silicone sealant for building and glazing joints. It cures at room temperature to produce a flexible low modulus elastomeric seal. CM LM will adhere without primer to most common building substrates. Once cured it has a movement capability of $\pm 50\%$ over a wide range of temperatures.

CHARACTERISTICS

CM LM combines the advantages of a low modulus elastomeric sealant (minimum strain on joint surfaces) with primerless adhesion and neutrality on most construction materials including porous substrates. Its curing characteristics enable easy application and tooling of the product. Mechanical properties and adhesion are not affected by prolonged exposure to sunlight, rain, snow or ozone. CM LM can be used on glass, coated glass, vitreous surfaces, metal, painted or unpainted wood, UPVC, polycarbonates, polymethacrylates, ABS, concrete, granite, marble... Cured CM LM is resistant to diluted bases, salt spray and short term exposure to most common industrial solvents and hydrocarbon based products, in the latter case some reversible swelling and softening will occur. Acids and oxidants can affect CM LM

TYPICAL USES

CM LM has been specifically developed for jointing or bonding in building and glazing applications such as:

- Expansion joints and curtain walls
- Perimeter joints around windows or doors
- Glazing joints on aluminium, wood, UPVC...
- Joints on roofs, chimneys
- Venting or gutter joints
- Bonding mirrors
- Kingspan panels



TYPICAL PROPERTIES

Cure system	Alcoxy
Specific gravity, approx.	1.24
Sag, Slump (ISO7390)	1
Skin over time*, min, approx.	12
Tack free time*, h, approx.	2
Cure time*	
mm/1 st day, approx.	1
mm/7 days, approx.	5
Application temperature range	+5°C to +40°C
Service Temperature range	-50°C to +150°C
Joint movement capability %	+/- 50%
Hardness (Shore A-ASTM 2240)	
(6mm thick film) approx.	16
Elastic recovery (ISO 7389), %, approx.	90
Mechanical properties (2mm thick film-ASTM D 412)	
Tensile at 100% elongation, Mpa, approx.	0.25 (35 psi)
Tensile strength, Mpa, approx.	1.0 (140 psi)
Elongation at break, %, approx.	500
Mechanical properties on slabs (ISO 8339)	
Tensile at 100% elongation, Mpa, approx.	0.25 (35 psi)
Tensile strength, Mpa, approx.	0.5 (70 psi)
Elongation at break, %, approx.	400

* at 23°C and 50% relative humidity

STANDARDS

CMSFS meets or exceeds the requirements of the following standards:

DIN 18540 (Class F)	BS 5889 (1989) Type A
DIN 18545 (T2, Class E)	TTS 001543A (Class A)
UBATC (Class 6)	TTS 0230C (Class A)
SNJF Elastomere 1re cat (glass, aluminium, concrete)	ASTM C920 (s25)
ANJF DTU39 (glass, aluminium)	

Conforms to the requirements of MA 39 (Austria) and NBI (Norway)
ISO 11600-25LM GF – Glass, aluminium, concrete (primerless)



APPLICATION PROCEDURE

Joint preparation	<p>The joint faces to be bonded must be clean, dry and free from dust, oil, grease, old sealant and any tracers of contaminant which may affect adhesion.</p> <p>Surfaces should be degreased with solvent using a clean cloth and the two cloth method. To remove dust, use oil-free compressed air.</p>
Priming	<p>CM LM does not normally require primer on most common substrates used in building. In cases of immersion, mainly with porous substrates, a primer is recommended.</p> <p>On non-porous substrates, primer should be applied with a cloth or a soft brush, in the case of particularly porous materials, apply a second layer after drying.</p>
Joint dimensions	<p>The movement capability of sealant as well as local regulations must be considered.</p> <p>Joint width should be twice the depth.</p>
Sealant application	<p>For good performance it is essential that the sealant is only bonded to the two facing sides of the joint, to achieve this install a backup material (closed cell polyethylene or open cell polyurethane foam).</p> <p>Apply the sealant in a continuous operation making sure all air pockets or voids are eliminated. Tool the sealant with light pressure to spread the material against the joint surfaces, this operation should be made with a dry spatula before skin formation occurs.</p> <p>Excess uncured sealant should be wiped and cleaned with a commercial solvent such as trichlorethylene, cured sealant can only be removed by abrasion.</p>

LIMITS OF USE

CM LM is not recommended for use on materials where migration of constituents can take place, e.g. certain rubbers. It must not be used for jointing aquariums or swimming pools. For all uses in permanent immersion please consult us.

CM LM once cured, should not be painted (poor coverage and adhesion of paint).

CM LM is not recommended where abrasion or physical abuse will be encountered.

CM LM must not be used for food contact.

When in contact with alkyd paints a slight yellowing can appear on the surroundings of the joint.

COLOUR RANGE

Trans only

PACKAGING

CM LM is available in 380ml cartridges, other pack sizes are available upon request.



STORAGE AND SHELF LIFE

CM LM has a shelf life of 24 months from its date of manufacture

Once the packaging has been opened the product must be used as soon as possible.

SAFETY

Consult the Safety Data Sheet for CM LM

WARNING TO USERS

The information contained in this document is given in good faith based on our current knowledge. It is only an indication and is in no way binding, particularly as regards infringement of or prejudice to third party rights through the use of our products.

CM SEALANTS GUARANTEES THAT ITS PRODUCTS COMPLY WITH ITS SALES SPECIFICATIONS.

This information must on no account be used as a substitute for necessary prior tests which alone can ensure that a product is suitable for a given use.

Users are responsible for ensuring compliance with local legislation and for obtaining the necessary certifications and authorisations.

Users are requested to check that they are in possession of the latest version of this document and CM SEALANTS is at their disposal to supply any additional information.

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