



Description

CM SFS 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 SFS 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

Properties

CM SFS combines the advantages of a low modulus elastomeric sealant (minimum strain on joint surfaces) with primer less 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 SFS can be used on glass, coated glass, vitreous surfaces, metal, painted or unpainted wood, UPVC, polycarbonates, polymethacrylates, ABS, concrete, granite, marble etc. CM SFS is a non-staining sealant, however specific trials must be performed on sensitive or porous substrates (marble, stones...) Cured CM SFS 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 SFS

Applications

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

- Expansion joints in brickwork, precast panels, and curtain walls
- Perimeter joints around windows or doors
- Glazing joints on aluminium, wood, UPVC...
- Joints on asphalt / bituminous upstands [light colours will discolour]
- Lead or gutter joints
- Bonding mirrors
- Kingspan panels

Characteristics

- Cure system: Alcoxy
- Specific gravity: Approx. 1.24
- Sag, Slump (ISO7390): 1
- Skin formation time*, min: Approx. 12
- Tack free time*, hours: Approx. 2

Cure time*;
mm/1st day: Approx. 1
mm/7 days: Approx. 5
Application temperature range: +1°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)
VOC content: < 3%
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
Service life: 20 years

* at 23°C and 50% relative humidity

Standards and fire test certifications

CM SFS 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 ASTM C920 (s25)
(Glass, aluminium, concrete)
ANJF DTU39 (glass, aluminium)
Conforms to the requirements of MA 39 (Austria) and NBI (Norway)
ISO11600-F&G-25LM – Glass, aluminium, concrete (primer less)
CE 14 0432
EN15651-2

Directions for use

Joint preparation: Surfaces to be sealed must be clean, dry, and free from dust, oil, grease, old sealant, and any traces of contaminant which may affect adhesion. Surfaces should be degreased with solvent using a clean cloth and the two-cloth method. Apply at temperatures between +5°C and +40°C. A sample test on chosen substrate is recommended prior to application. Check gap widths conform to specification. A joint width x depth ratio of 2:1 is recommended. Insert a backing material to control depth of sealant to the recommended width ratio. Tool within 10 minutes of application

[Cont...]

Limitations of use

CM SFS 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 SFS, once cured, should not be painted (poor coverage and adhesion of paint). CM SFS is not recommended where abrasion or physical abuse will be encountered. CM SFS must not be used for food contact. When in contact with alkyd paints a slight yellowing can appear on the surroundings of the joint.

Colours

CM SFS is available in White, Off White, Grey, Light Grey, Anthracite, Graphite, Black, Limestone, Portland, Buff, Brick Red, Teak, Bronze, and Transparent. CM SFS dries to leave a matt finish

Packaging

CM SFS Sealant is available in 380ml cartridges

Storage and shelf life

CM SFS Sealant has a shelf life of 36 months, guaranteed by CM Sealants from its date of manufacture when stored at a temperature between -20°C and +30°C in its original, unopened packaging

Safety

Consult the Safety Data Sheet

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 using 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