



# ***CM PYROSTOP FIRE RATED SILICONE SEALANT***

## **TECHNICAL DATA SHEET**

**March 2017**

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### **Description**

CM PYROSTOP Sealant is a one component, ready to use silicone elastomer intended to produce fire-stop sealing and bonding seals. An integral part of the FIRESTOP System of passive fire rated products.

CM PYROSTOP has also been sound tested and has a 55DbA rating

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### **Properties**

CM PYROSTOP Sealant withstands fire for 4 hours when used in seals with a width of up to 50mm (curtain wall or floor). It remains neutral to construction materials, including porous surfaces. It is an elastomer with an average modulus of elasticity which therefore, subjects bonding surfaces to low stresses and gives longer life to sealing joints. Processing and smoothing of seals is made easier due to the sealant's outstanding rheological characteristics.

CM PYROSTOP Sealant can be used on clear glass, metals, wood, PVC, cellular concrete, granite, etc. CM PYROSTOP Sealant, once cured, withstands diluted bases and salt mist, together with the temporary action of common solvents and hydrocarbons with, for the latter, slight swelling of the sealant during exposure.

As opposed to this, its characteristics can be modified by acids or chemical oxidising agents. Its mechanical and adhesion properties are not affected by the sun's rays, snow, rain, ozone and allow it to provide its functions over many years.

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### **Applications**

CM PYROSTOP Sealant is especially suited to producing fire stop seals and sealing and bonding in construction and glazing applications, notably for:

- Heavy construction and traditional masonry.
  - Curtain walls, panels and facades, metal and PVC joinery.
  - Wood burning fires and stoves
  - Air ducts, cable or piping passages.
  - Terrace or fireplace seals.
  - Elastic seal in glazing, on aluminium, wood, PVC, et
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### Characteristics

Type of sealant .....	oxime
Specific gravity, approx .....	1.4
Pouring resistance (EN 27390), mm, approx .....	0
Skin formation time*, min., approx .....	7
Tack free time, min, approx .....	30
Viscosity at a stress of 3000 N/m <sup>2</sup> , at 20°C, Pa.s, approx .....	170
Cure rate* : mm/1 day, approx. ....	4
mm/3 days, approx .....	7
mm/7 days approx. ....	10
Application temperature range .....	+ 5°C to + 40°C
Service temperature range .....	- 50°C to +150°C
Maximum movement .....	25%
Shore A hardness (ISO 868), approx. ....	20
(6 mm film)	
Elastic recovery (EN 27389), approx. ...	90%
* at a temperature of 23°C and relative humidity of 50%	
Mechanical properties on 2mmthick film(NF T 46002)	
Modulus at 100% elongation, MPa, approx. ....	0.3
Tensile strength, MPa, approx. ....	1.1
Elongation at break, %, approx. ....	600
Mechanical properties on specimens according to EN 28339	
Modulus at 100% elongation, MPa, approx. ....	0.34
Tensile strength, MPa, approx. ....	0.38
Elongation at break, %, approx. ....	210
Fire Tested .....	1160 degrees centigrade

### Standards and FIRE test certifications

CM PYROSTOP Sealant meets requirements of the standards:

ISO 11600 F & G - 25 LM and BS 5889 Type A

Other Expansion joint and resistance certification:

CM PYROSTOP Sealant has obtained the following certifications :

SNJF - category 1 elastomer - surfaces : polished aluminium and mortar (primerless)

SNJF - Elastic seal - surfaces : glass and polished aluminium (primerless)

Tested in accordance with the standard BS 476 : Part 20, fire stop classifications were achieved with 30mm wide seals and polyethylene foam seal backing (certificate WARRES N° 80136) :

Linear gap sealant in wall and floor joints up to 30mm wide using standard PE backing rod : 4 hours - tested in accordance to the performance requirements of BS 476 : Part 20 (1987)

Class 1 - BS 476:Part 6 (1989) and Part 7 (1987) - (WARRES N° L12463 and WARRES N° L12464)

Decontamination tests according to DIN 25415 : Part 1 - Report N° 202 (27.05.93)

BS 6853 : (1987) Appendix B - Clause B.5.1 - AO (max) = 0.06 - (WARRES N° L12547)

DIN 18545 E

Flammability index : M2 (France) - B1 (Germany)

Smoke index : FO (France)

PMUC N°24010

Decontamination : NF-T 30901, PV 950502 (Pointer)

DIN 25415 Part 1

Firestop up to 6 hours (according to configuration) - test report CSTB N° 9234592 (France)



#### 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.

##### SEALANT APPLICATION:

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: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.

#### Limitations of use

CM PYROSTOP Sealant must NOT be used in contact with materials likely to exude certain components over time.

CM PYROSTOP Sealant must NOT be used for structural glazing applications CM PYROSTOP Sealant must NOT be used for food contact applications.

#### Colours

White, Grey and Black

#### Packaging

CM PYROSTOP Sealant is available in 400ml cartridges

#### Storage and shelf life

CM PYROSTOP Sealant has a shelf life of 24 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 for CM PYROSTOP

#### 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 GUARANTEE THAT THEIR PRODUCTS COMPLY WITH THEIR 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 are at their disposal to supply any additional information.

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