

Firestop silicone technical datasheet

Single-component, neutral-curing silicone sealant with increased fire-proofness for filling joints exposed to fire. Specially designed for weather sealing of expansion joints where a fire resistance is required.

Adheres well to wide range of porous and non-porous substrates such as glass, bricks, ceramics, enamel, glazed stones and clinker, metals etc. However, a preliminary adhesion test is recommended on every surface.

Non-sagging, does not spread in the joint. Remains elasticity at temperatures between -40 °C and +150 °C. UV and weather proof.

The material meets following requirements:

- 4 h hours according to EN:13501-2 and B-s3,d0 according to EN:13501-1.
- Tested according to EN:1366-4 "Fire resistance test for service installations. Linear joint seals" (Equivalent to BS 476, Part 20),
- Tested according to EN:13823 "Reaction to fire test for building products" and EN-ISO:11925-2 "Ignitability of building products subjected to direct impingement of flame".
- Sealant for facade for interior and exterior application, intended for use in cold climate.

EN 15651-1:2012: Type F-EXT-INT-CC: CLASS 25HM

Field of applications

Firestop expansion joint sealing in construction applications, for example:

- Ventilation and smoke ducts, cable passages, pipe penetrations, etc.

Application conditions

Application temperature between +5 °C and +40 °C. The application temperature of the sealant must be between +20 °C and +25 °C.

Not suitable for sealing aquariums, structural glazing, for food direct contact and for under-water applications. Not paintable. Do not use in contact with natural stones such as marble, granite, quartzite, as it may cause stains.

Application instructions

The surfaces must be clean from dust, loose particles and oil. In case of porous substrates (e.g. concrete) a primer should be used.

Cut off the threaded end of the cartridge and screw on the application nozzle for directing sealant. Cut the threaded end in a way where a suitable opening for application is produced. Place the cartridge together with the applicator in the gun and fill the installation nozzle with sealant, by repeatedly pressing the gun trigger.

Apply sealant in the joint by repeatedly and evenly pressing on gun trigger and smoothly dragging the nozzle along the joint. After application, smooth the surface with a rubber silicone scraper and remove excess material.

Cleaning

Uncured sealant, tools and hands can be cleaned with PENOSIL Premium Cleaning Wipes.

Cured sealant can be removed mechanically by using PENOSIL Premium Silicone Remover for softening the sealant. Clean the surface with sponge and water.



Technical data

Properties	Unit	Value
Skin forming time	minute	20
Curing time	mm/24 h	2,5-3
Density	g/cm ³	1,25
Properties of cured sealant		
Elongation at break (ISO 37)	%	>650
Hardness (Shore A) (ISO 868)		25±2
Movement of the joint (ISO 11 600)	%	± 25
Modulus at 100% elongation (ISO 37)		0,38
Tensile strength (ISO 37)	MPa	1,60
Service temperature	°C	-40 to +150

The parameters indicated have been measured at +23 °C and 50% relative air humidity.

Joint dimensions		Baking material	Orientation	Rating acc. EN 1366-4		Classif. according EN 13501-2
Width (mm)	Depth (mm)			Integrity (min.)	Insulation (min.)	
10	8	MW	Pysty	180 (*)	180 (*)	E 180 EI 180-V-X-F-W 00 to 10
10	8	MW	Vaaka	180 (*)	180 (*)	E 180 EI 180-T-X-F-W 00 to 10
30	15	MW	Pysty	240	194	E 240 EI 180-V-X-F-W 00 to 30
40	10	PE	Pysty	240	164	E 240 EI 120-V-X-F-W 00 to 40
40	20	MW	Pysty	240	240	E 240 EI 240-V-X-F-W 00 to 40
60	30	THP	Pysty	240	240	E 240 EI 240-V-X-F-W 00 to 60
100	30	MW	Pysty	240	240	E 240 EI 240-V-X-F-W 00 to 100
100	30	MW	Vaaka	180 (*)	180 (*)	E 180 EI 180-T-X-F-W 00 to 100
150	30	MW	Pysty	240	240	E 240 EI 240-V-X-F-W 00 to 150

(*) Test stopped after 3 hours.

Legend: MW: Mineral wool -Fiberfoc / THP: Reinforced PU foam / PE: Polyethylene foam

V: Vertical supporting construction – vertical joint ; T : Vertical supporting construction – horizontal joint

X : No movement ; F: Field (Joint made following real conditions) ; W: joint width

Colour

White.

Package

310 ml cartridge, 12 pcs in a box.

Storage conditions

Guaranteed storage time 12 months starting from the date of manufacture if stored in a closed original package in a dry place between +5°C and +25°C.

Safety regulations

Ensure sufficient ventilation during application. Keep out of the reach of children. Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with water and seek medical advice.

Cured sealant can be handled without any danger to health.

Detailed safety information is available on safety data sheet (SDS).