



PC-Fire shield® SS 600

Fire Resistant Neutral Cure Silicone Sealant

PC-Fire shield® SS 600 is a cost-effective, single-component, neutral-curing silicone sealant designed to enhance fire resistance in compartment walls and floors with linear joints. This silicone creates a robust barrier during a fire outbreak, preventing the spread of flames and hot gases through openings, thereby mitigating temperature rise on the non-fire side. Tested and approved for linear gaps and joints up to 50mm wide, PC-Fire shield® SS 600 exhibits exceptional resilience against weather, aging, and UV exposure. Moreover, it offers strong adhesion to a variety of commonly used construction materials.

FEATURE

- Independently Tested & Certified
- Solvent-Free
- Easy Installation
- Flexible and Durable
- Non-Hazardous
- Economical Solution
- 3rd Party Audited & Accredited
- Easily Accessible through Local Representatives
- Continuous testing and certification program for expanding application range
- ISO 9001 Quality Assurance

PRODUCTS PROPERTIES

Physical Properties	Typical Value
Composition	Neutral Cure Silicone
Colour	Grey
Sg	1.22 +/- 0.22
pH	Neutral
Shore A Hardness	23 - 27
Skin Forming Time	2 - 5 mins @ 24°C & 50% RH
Tack Free Time	45 mins @ 24°C & 50% R
Depth Cure	2mm to 3mm per day
Joint Movement Capability	+/- 50%
Application Temperature	+4°C - +45°C
Service Temperature	-40°C - +160°C
Packing	300ml cartridges and 600ml foils as standard.

USE

PC-Fire shield® SS 600 is comprehensively tested and independently certified in a wide range of applications, from linear gap seals in concrete walls and floors to service penetrations seals in concrete walls and floors and gypsum drywalls.

A. Linear Gap Seals in Concrete Walls

240 / 240 Mins Fire Resistance (Insulation and Integrity) when used to seal vertical joints from 20mm to 50mm wide in concrete walls.

B. Linear Gap Seals in Concrete Floors

120 / 120 Mins Fire Resistance (Insulation & Integrity) when used to seal horizontal joints from 25mm to 50mm wide in concrete floors.

NOTES: Backing material for all installations is min 50kg mineral fibre packed into void. (please see relevant installation detail sketches)

Width to depth ratio = 2:1 for all seals

APPLICATION INSTRUCTIONS

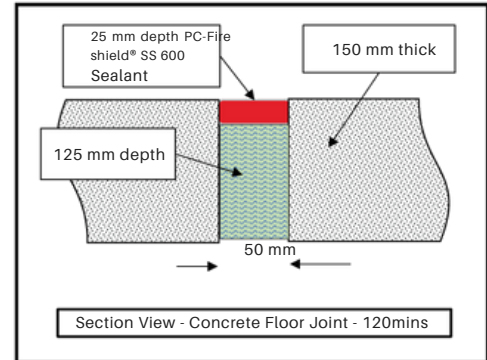
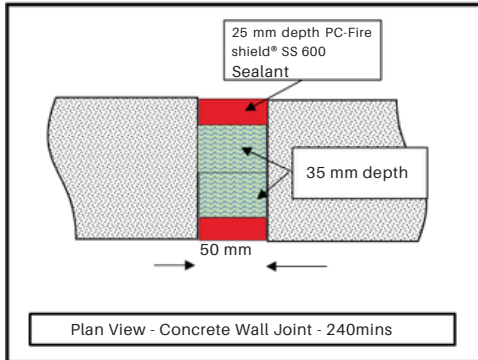
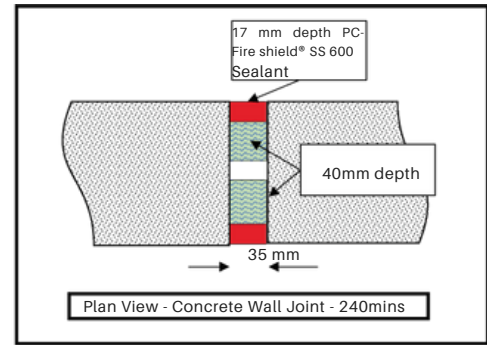
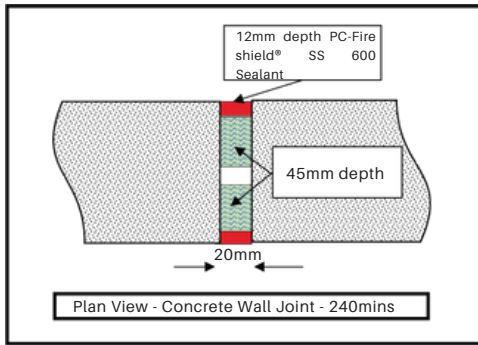
PC-Fire shield® SS 600 is easily installed using readily available hand tools (standard cartridge gun or professional foil gun, knife, and spatula or flat tool for finishing)..

- Remove all loose debris, grease, oil and bituminous material from all contact surfaces.
- Install backing material as per manufacturers recommendations ensuring that the correct depth of sealant can be installed and that a width to depth ratio of 2:1 is maintained.
- Extrude sealant into joint removing any air voids by applying light pressure and ensure that the correct depth of sealant for the width of joint is applied. Use a wet spatula or suitable smoothing tool to provide a smooth neat finish to the seal.

IMPORTANT REMINDER NOTES FOR LINEAR GAP SEALS:

Backing material for all linear gap seal installations is min 50kg mineral fibre packed into void with a minimum compression of 50% across width of joint.

Min 2:1 width to depth ratio for the sealant must be maintained to ensure correct fire resistance and longevity of the seal. This is subject to a minimum of 12mm depth.



APPLICATION INSTRUCTIONS

STORAGE

PC-Fire shield® SS 600 is available in 300ml cartridges and 600ml foils as standard. Store in a dry area shielded from direct sunlight, elevated above ground level, and adequately covered. Unseal the bag immediately before use.

SAFETY

- Personal Protective Equipment (PPE) like gloves and goggles must be worn during application.
- Clean hands and tools solely with soapy water.
- Refrain from eye or prolonged skin contact. If contact occurs, promptly rinse with water for 15 minutes; seek medical advice if issues persist.
- Avoid ingestion. Inhalation may result in severe respiratory issues.
- Prevent inhalation of dust; use a respirator in dusty environments.
- Prioritize hand sanitization before and after application to safeguard against COVID-19 and promote overall health.

FIRE PERFORMANCE

Construction	Integrity	Insulation
Linear Gaps in Walls	240 mins	240 mins
Linear Gaps in Floors	120 mins	120 mins

SHELF LIFE

The shelf life extends to 24 month from the manufacturing date when the product remains unopened and is stored in a cool, dry location above ground level.

DISCLAIMER

Users are urged to evaluate the product's usability within its designated scope. Our products are meticulously designed according to the rigorous quality criteria of PC-WC and subjected to stringent quality assurance measures. It is essential to recognize that the company does not supervise site conditions or installation procedures; consequently, the company cannot be held responsible for any losses, damages, or liabilities arising from improper usage.



PC-WC GLOBAL FZ-LLC

Compass Building, Al Shohada Road Al-Hamra Industrial Zone-FZ,
Ras Al-Khaimah, UAE
Email: info@pc-wc.com
Phone +971542455817, www.pc-wc.com



TECHNICAL DATA SHEET UPDATED IN
SEPTEMBER 2020
TD/SPC-FIRE SHIELD® SS 600/20

All technical data in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

The information, particularly the recommendations relating to the application and end-use of PC-WC products, are given in good faith based on PC-WC's current knowledge and experience of the products when properly stored, handled and applied under normal conditions by PC-WC recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or any other advice offered. The user must test the product's suitability for the intended application and purpose. PC-WC Global FZ-LLC reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Our technical assistance is at the disposal of the users. Consult the latest update of the technical data sheet on our website www.pc-wc.com