

# Heatshield S600

## Fire Resistant Neutral Cure Silicone Sealant

### Product Description

**Heatshield S600 FR Silicone** is an economic, single component neutral curing silicone sealant used to maintain fire resistance in compartment walls and floors where linear joints (discontinuities) are located. In a fire situation, **Heatshield S600 FR Silicone** forms a robust barrier which prevents the passage of flames and hot gases through these openings and which restricts temperature rise on the non-fire side of the wall or floor. **Heatshield S600 FR Silicone** has been tested and independently certified for use in linear gaps and joints up to 50mm wide. It offers excellent weather, ageing and UV resistance properties and it adheres to a wide range of commonly used construction materials.

**Heatshield S600** is available in 300ml cartridges and 600ml foils as standard.

Case Quantity: 300ml Cartridges packed - 25 per carton  
600ml Foils packed - 20 per carton

### Intended Use

**Heatshield S600** is comprehensively tested and independently certified in a wide range of linear gap seals in concrete walls and floors.

#### 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

**Heatshield S600** is easily installed using readily available hand tools (standard cartridge gun or professional foil gun, knife, and spatula or flat tool for finishing).

1. Remove all loose debris, grease, oil and bituminous material from all contact surfaces.
2. 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.
3. 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.



### Key Benefits

- Independently Tested & Certified
- Excellent Durability
- Weather Resistant
- Easy Installation
- Durable & Flexible
- Economic Solution
- 3rd Party Audited & Accredited
- International Approvals
- Readily Available
- Ongoing testing and certification program to expand range of applications
- ISO 9001 Quality Assured

### Coverage

$$\frac{\text{Sealant Depth} \times \text{Gap Width} \times \text{Total Length}}{300}$$

= No of cartridges Required



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European Assessment Documents:  
EAD350141-00-1106 - Sep 2017



ENCG R.40333

Certificate No:  
UL-EU-01302-EN

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## Physical Properties

Composition	Neutral Cure Silicone
Colour	Grey & White
Sg	1.22 +/- 0.22
pH	Neutral
Flow (sag or slump)	Not Determined
Shore A Hardness	23 - 27
Skin Forming Time	2 - 5 mins @ 24°C & 50% RH
Tack Free Time	45 mins @ 24°C & 50% RH
Depth Cure	2mm to 3mm per day
Joint Movement Capability	+/- 50%
Application Temperature	+4°C - +45°C
Service Temperature	-40°C - +160°C
Limitations	Do not use in conditions of continuous immersion, below ground or in areas of high mechanical abrasion.
Storage	Store between 10 - 25°C, do not store below 5°C
Shelf Life	15 months at 25°C in unopened tubes.

## Fire Performance

<b>Reaction to Fire</b>	BS EN13501.1	Class E
<b>Resistance to Fire</b>	BS EN13501.2	

## Linear Gap Seals - BS EN1366.4

Min 120mm thick rigid wall with sealant to both sides of wall (vertical orientation)				
Depth of Sealant	Max Joint Width	Depth of Backing Material*	Fire Resistance	Fire Performance Classification
12mm	20mm	45mm	240 mins (E & I)	EI 240-V-X-B-W10 to W20
17mm	35mm	40mm	240 mins (E & I)	EI 240-V-X-B-W10 to W35
25mm	50mm	35mm	240 mins (E & I)	EI 240-V-X-B-W10 to W50

Min 150mm thick rigid floor with sealant to top side of floor				
Depth of Sealant	Max Joint Width	Depth of Backing Material*	Fire Resistance	Fire Performance Classification
12mm	25mm	138mm	120 mins (E & I)	EI 120-H-X-B-W0 to W25
25mm	50mm	125mm	120 mins (E & I)	EI 120-H-X-B-W0 to W50

\*Backing Material:

Backing material for ALL seals is minimum 50kg /m<sup>3</sup> mineral wool packed into linear gap seals or annular space around services.

*As part of our policy of on-going product development and testing, we reserve the right to modify, alter or change product specifications without giving notice. All information contained in this document is given in good faith and is provided for guidance only. As GREENTECH THERMAL INSULATION PRODUCTS MFG LLC has no control over the methods or competence of installation, or of prevailing site conditions, no warranties, expressed or implied, are intended to be given as to the actual performance of the products mentioned or referred to herein and no liability whatsoever will be accepted for any loss, damage or injury arising from the use of the information given.*

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