TECHNICAL DATA SHEET Issue 3.0 - Oct 2025

# Heatshield S600

## Fire Resistant Neutral Cure Silicone Sealant

GREEN TECH®

Heatshield

A Division of Triton Middle East LLC

## 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

CE

2821

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

UL EU

ENCG R.41917

Certificate No:
UL-EU-01302-EN

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Intertek

ISO 14001 + 45001

CERTIFIED ISO 9001

TRITON MIDDLE EAST

MANUFACTURED IN U.A.E.

## Physical Properties

| | |
|---|---|
| Composition | Neutral Cure Silicone |
| Colour | Grey & White |
| Sg | 1.20 ± 0.03 @27˚C |
| 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

| | | |
|---|---|---|
| **Reaction to Fire** | BS EN13501.1 | Class E |
| **Resistance to Fire** | 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 /m3 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 TRITON MIDDDLE EAST 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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