

# **Fire Stopping Compartmentation Systems**

## **FLAMOLASTIC**



**TRIA**

## description

FLAMOLASTIC fire Rated Silicone is a silicone based sealant used to form linear gap seals where gaps are present in floor and wall constructions. FLAMOLASTIC Fire Rated Silicone is supplied in liquid form contained within 310ml. PE backing rod is utilised as a depth gauge.

## key product points

- Non-slump, easy to apply and tool off.
- No priming required for most substrates.
- Contributes to Green Building.
- Highly flexible and waterproof.

## intended use

The intended use of FLAMOLASTIC Fire Rated Silicone is to reinstate the fire resistance performance of gaps and joints in rigid floor and wall constructions.

**The specific elements of construction that the system FLAMOLASTIC Fire Rated Silicone may be used is as follows:**

- Fire resistance testing to EN 1366-4:2009 EI240.
- Fire Classification to EN 13501-2.
- Air Permeability testing to 600Pa.
- Fire resistant up to 4 hours in both horizontal and vertical joints.
- Can be used in joints up to 50mm wide.

### PRODUCT TECHNICAL DATA

Description	Result	Test Standards
Packaging	310ml cartridges	-
Colour	White	-
Slump	Nil at joints up to 30mm	-
Shrinkage	Approximately 5%	-
Cure Rate	3mm per day at 50% relative humidity 25°C	-
Specific Gravity	1.33 - 1.37 g/cm <sup>3</sup>	-
Application temperature	+5°C to +40°C	-
Tack Free	20 mins at 25°C, 50% RH	-
Water Resistance	Waterproof when fully cured	-
U.V. Resistance	Good	-
Joint Movement	25% of original joint size	-
Elastic Recovery	>90%	-
Fire Resistance	EI240	EN 1366-4
Air Permeability	600Pa, 100Pa 2.8/5.6 m <sup>3</sup> /h/m <sup>2</sup>	EN 1026
Classification	EN 13501-2, ISO 11600, 13501-1	
Acoustic Isolation	38dB (-;-9)	EN 10140, EN 717
Weathering	ISO 11431 - 250 cycles each 120 minutes / 102 mins of the cycle dry at 65°C lights at 550W/m <sup>2</sup> over a wave length of 290 – 800nm / 18 minutes wet, immersion, light off . Water to be at 25°C	
BREEAM International	Compliant	GN22: BREEAM Recognised Schemes for VOC Emissions from Building Products
Expected Shelf Life	12 months	Stored in accordance with packaging instructions

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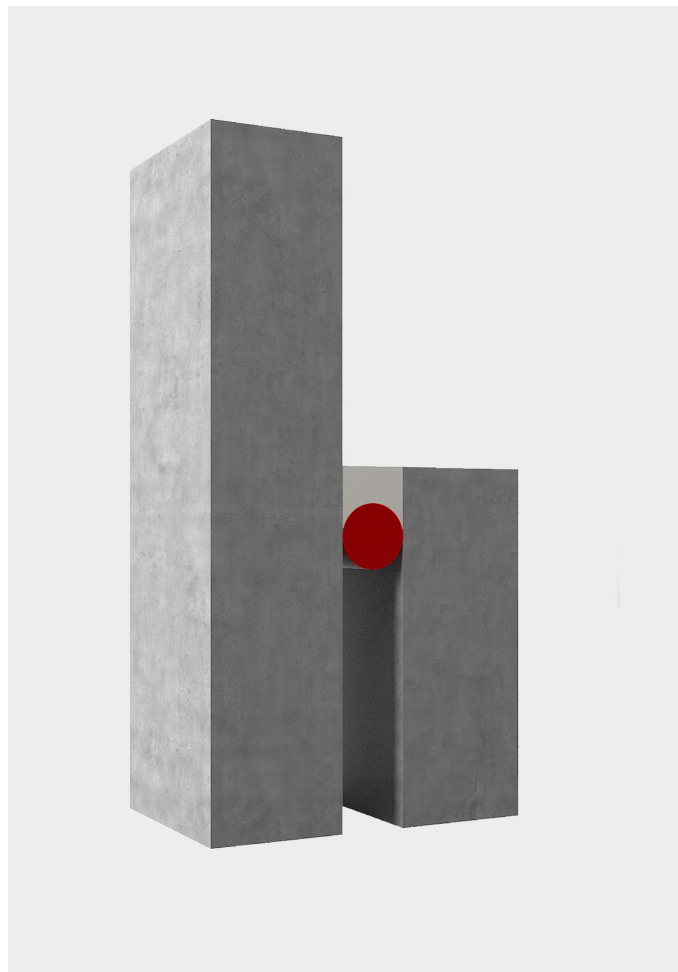
## backing material

Stonewool (min. 60kg/m<sup>3</sup>) or PE backing rod where required must be used as backing materials, though the FLAMOLASTIC Fire Rated Silicone should be installed correctly to achieve the performance needed.

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## key installation points

For good adhesion the surfaces of the building elements shall be free of any dust or grease and may need to be primed, on good clean, virgin concrete & masonry, no priming required. Ensure that the aperture and services in question are tested with FLAMOLASTIC Fire Rated Silicone and the site conditions are within the application specification. An annular space needs to be present around the service to apply sufficient installation depth. All services and apertures need to be clean and clear of all dust and loose particles. The aperture temperature needs to be at 5°C or above at time of installation.



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## approximate coverage

To determine quantity of sealant required, calculate as follows (in mm) remember to double for double sided seal:

$$\frac{\text{Gap width X Depth X Total Length}}{310 \text{ ml Cartridge (600ml Sausage)}} = \text{N}^\circ \text{ of cartridges}$$

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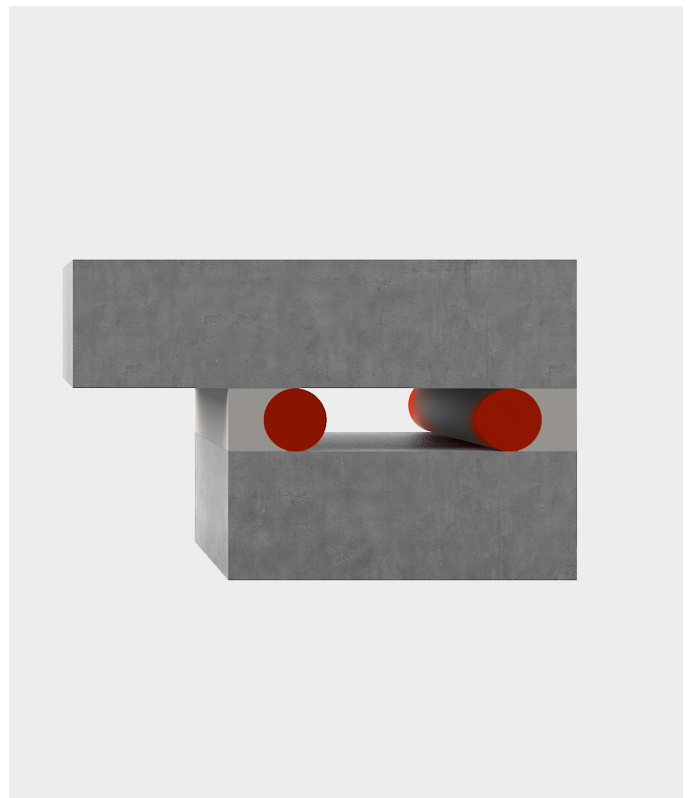
## substrates

All walls shall have at least the same fire resistance as that required for the sealing system.

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## service support requirements

Services should be rigidly supported via steel angles, hangers or channels, not further than 400mm from the surface of the sealing system on both faces of the wall and top face of the floor unless specified otherwise in the performance data.



## performance data - rigid wall

FLAMOLASTIC FIRE RATED SILICONE LINEAR JOINT SEALS IN RIGID WALL				
FLAMOLASTIC silicone sealant depth (mm)	Backing Material	Substrates	Seal Orientation	Classification
5	Stonewool 50mm 60kg/m <sup>3</sup>	AAC - AAC	Both Faces	EI240 - V - X - F - W 00 - 60
5	Stonewool 50mm 60kg/m <sup>3</sup>	AAC - Steel	Both Faces	E240 EI60 - V - X - F - W 00 - 60
5	Stonewool 50mm 60kg/m <sup>3</sup>	AAC - Hardwood	Both Faces	EI180 - V - X - F - W 00 - 60
5	Stonewool 50mm 60kg/m <sup>3</sup>	AAC - Softwood	Both Faces	E240 EI180 - V - X - F - W 00 - 60
25	PE Backing Rod	AAC - AAC	Both Faces	E240 EI180 - V - X - F - W 00 - 50

## performance data - rigid floors

FLAMOLASTIC FIRE RATED SILICONE LINEAR JOINT SEALS IN RIGID WALL				
FLAMOLASTIC silicone sealant depth (mm)	Backing Material	Substrates	Seal Orientation	Classification
5	Stonewool 50mm 60kg/m <sup>3</sup>	AAC - Steel	Unexposed Face	E90 EI45 - H - X - F - W 00 - 60
5	Stonewool 50mm 60kg/m <sup>3</sup>	AAC - Steel	Exposed Face	E120 EI60 - H - X - F - W 00 - 60
5	Stonewool 50mm 60kg/m <sup>3</sup>	AAC - AAC	Unexposed Face	E240 EI180 - H - X - F - W 00 - 60
5	Stonewool 50mm 60kg/m <sup>3</sup>	AAC - AAC	Exposed Face	E90 EI60 - H - X - F - W 00 - 60
6	PE Backing Rod	AAC - AAC	Unexposed Face	E240 EI120 - H - X - F - W 00 - 12
30	PE Backing Rod	AAC - AAC	Unexposed Face	E240 EI60 - H - X - F - W 00 - 60

## information

TRIA has Technical Representatives who provide assistance in the selection and specification of TRIA products. For more information, specification and technical advice please call our Head Office [geral@tria.pt](mailto:geral@tria.pt). Guarantee / Warranty: TRIA products are manufactured to rigid standards of quality. Any product which has been applied in accordance with TRIA's written instructions and in any application

recommended by TRIA, but which is proved to be defective in product quality, will be replaced free of charge. No liability can be accepted for the information provided in this document although it is published in good faith and believed to be correct. TRIA reserves the right to alter product specifications without prior notice, in line with our Company policy of continuous development and improvement.

COMPANY OF THE GROUP



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