

## Fire Door Silicone Sealant

### Product Data

Technical Properties	
Basis	Silicone dispersion
Consistency	Paste
Curing system	Physical drying
Skin formation* (23°C/50% R.H.)	Approx. 10-15 minutes
Tack Free Time* (23°C/50% R.H.)	Approx. 20-30 minutes
Density (nominal)	1.32 kg/m <sup>3</sup>
Maximum allowed distortion (ISO 11600)	Ca. 25% Low Modulus
Temperature resistance	-30 °C → 120 °C
Application temperature	5 °C → 40 °C
Shrinkage after curing	Ca. <2% (DIN 52451)
Shore A hardness	20-28
Extrudability g/min:	55 (standard NMRPS 495A 3mm/3 bars)
ISO 11600 standard	F&G-25LM
Fire resistance (BS EN 1634-1 & BS 476 Part: 20/22)	≤ 60 min
Mechanical Properties on a 2mm thick film (NF T 46002)	
Modulus at 100% elongation	0.37 Mpa
Elongation at break	550%
Tensile strength	1.5 Mpa
Mechanical Properties on glass slabs (EN 28339)	
Modulus at 100% elongation	0.32 Mpa
Elongation at break	260%
Tensile strength	0.55 Mpa
Application temperature range	+5°C to +40°C
Service temperature range	-50°C to +150°C

\* These values may vary depending on environmental factors such as temperature, moisture, and type of substrates.



# Product Description

FAS Fire Door Silicone Sealant has been specifically tested for sealing gaps between walls and frames of internal and external fire doors, flat entrance doors and timber screens to achieve 60 minutes of fire protection.

## Characteristics

- ✓ Prevents the passage of fire and smoke
- ✓ 60 minutes fire-rated in external & internal fire door joints
- ✓ Seals joints up to 25mm without slumping
- ✓ Specially tested with external fire-rated doorsets
- ✓ Stays elastic with up to 25% movement capability
- ✓ Available in white and grey
- ✓ Exterior and interior use
- ✓ Fully compliant with British and European standards:
  - BS 476: Part 22 1987
  - BS EN 1634-1: 2014 + A1:2018
  - BS EN 1634-3: 2004
  - BS EN ISO 10140-2 : 2010
- ✓ Made in the UK

## Applications

- Correct application of the sealant is key to achieving appropriate fire resistance – see the installation guide for details.
- A 310ml cartridge will seal approximately 8.5m with a 6mm x 6mm bead or 2.5m with a joint dimension of 15mm x 8mm.
- Specially tested for use in 60-minute fire-rated external fire doors, flat entrance doors and external timber screens.
- The cured sealant is unaffected by water, dilute acids and alkalis, soap and household detergents. Certain solvents may soften and swell the cured rubber on prolonged contact.

## Application Considerations

- Don't use in environments where there is high pedestrian or vehicle traffic which can damage the sealant.
- Don't submerge joints in porous substrates that might allow water to reach the bond interface.
- Don't use for applications subject to contact with food products.
- Don't use in the manufacture of aquariums or for sealing swimming pools.

## Packaging

310ml plastic cartridges

## Shelf Life

9 months if stored in accordance with storage guidance.

## Storage & Disposal

Silicone cartridges can be stored for up to 9 months from the production date when stored in unopened cartridges under cool, dry conditions between 5°C and 25°C. Do not allow to freeze.

Empty cartridges should be disposed of appropriately in line with local regulations.

## Maintenance

Recorded inspection should be conducted in line with the maintenance and inspection schedule that is defined for the building or project. These should be conducted and recorded by competent individuals.

Where product is damaged or tampered, new product should be installed with the installation guidance.

Fire Rating	Test Standard	Report Reference	Certification Body
1 hour	BS EN 1634-1: 2014 + A1:2018	WF526263	WarringtonFire
Air/Smoke Leakage	BS EN 1634-3:2004	WYC524858	
1 hour	BS 476 22: 1987	CFR2209012	Cambridge Fire Research
1 hour	BS 476 22: 1987	CFR2204071	

Acoustic tested in accordance with BS EN ISO 10140-2 : 2010 - Reference WYC528972, WarringtonFire

## Health and Safety

- Contains 3-aminopropyltriethoxysilane. May cause an allergic reaction.
- Avoid contact with skin and eyes. In case of contact with eyes, flush immediately with water and seek medical advice.
- Wear suitable protective clothing and gloves.
- Keep out of reach of children. Do not ingest.
- Safety Data Sheet available on request.



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FAS-FRSILICONE/PDSv4 | Dec 2025