

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 ³
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
BS EN 1366 part 4	<240min
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 is a versatile sealant that seals gaps within construction joints to provide excellent long-term resistance to fire and smoke as well as other general weather elements.

It has been specifically tested for use in external fire doors, flat entrance doors and external timber screens to achieve 60 minutes of fire protection and 240 minutes in other applications.



Characteristics

- ✓ Prevents the passage of fire and smoke
- ✓ 60 minutes fire-rated in external & internal fire door joints, 240 minutes in other applications
- ✓ 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 1366 Part 4: 2006
 - BS EN 1366 Part 3: 2004
 - BS EN 1634-1: 2014 + A1:2018
 - BS EN 1634-3: 2004
- ✓ 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.
- Can also be used to seal joints in walls, cladding panels, service penetrations, roofing and conservatory applications, as a capping sealant for bead glazing, and as a general sealant for construction use to achieve up to 240 minutes fire ratings.
- 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.

Test Certification

Fire Rating	Test Standard	Report Reference	Certification Body
4 hours	BSEN1366 Part 4: 2006	173658B	WarringtonFire
4 hours	BSEN1366 Part 3: 2004	173658B	
1 hour	BS EN 1634-1: 2014 + A1:2018	WF526263	
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	

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.

