

Trade Name: Astro FR Silicone Fire Rated Silicone Sealant

COSHH Data

Installation Data

Product Images

Fire resistance testing to EN 1366-4 EI 300 and BS 476 240mins.

Fire Classification to EN 13501-2.
Acoustic Isolation to EN 10140 to 38dB.

Air Permeability testing to EN 1026 to 600Pa.
Weathering testing to ISO 11431.

Fire rated up to 4 hours in both horizontal and vertical joints.

Can be used in joints up to 50mm wide.

Causes no known deleterious effects to plastic pipes, plastic cables, sheathing or metallic components.



Certifire Accreditation.

Description

Astro Fire Rated Silicone is a high performance sealant for use in fire sealing joints and gaps up to 50mm wide.

A neutral curing, odourless fire rated silicone sealant with excellent weatherability and flexibility.

The sealant is primerless and offers a 4-hour fire rating to EN1366-4 and BS476 part 20 & 22 and up to 4 hours integrity with a life expectancy of over 30 years.

Other features include
Low Smoke and Toxicity.
Halogen free, ozone and radiation resistant.
Non-slump, easy to apply and tool off.
Contributes to Green Building.
Joint movement capability of +/- 25%.
Highly flexible and waterproof.
Resists fungi and vermin.

Application and Performance Data

This one-part fire rated sealant has excellent adhesion to porous and non-porous substrates and can be used for fire protection sealing of curtain walling, building facades, expansion joints, door frames and block work walls etc.

Performance Data for FR Silicone Sealant

Joint Size Width x Depth	Backing	Joint Configuration	Integrity Rating (mins)	Insulation Rating (mins)	Linear Metres per Cartridge
6mm x 10mm	P.E. Foam	Single Seal	60	30	5.2
6mm x 10mm	C.B or P.E. Foam	Dual Seal	240	240	2.6
10mm x 10mm	P.E. Foam	Single Seal	60	30	2.6
10mm x 10mm	C.B or P.E. Foam	Dual Seal	240	240	1.55
15mm x 10mm	P.E. Foam	Single Seal	120	90	1.4
15mm x 10mm	C.B or P.E. Foam	Dual Seal	240	240	0.9
20mm x 10mm	P.E. Foam	Single Seal	120	90	0.92
20mm x 10mm	C.B or P.E. Foam	Dual Seal	240	240	0.5
25mm x 10mm	P.E. Foam	Single Seal	120	90	0.6
25mm x 10mm	C.B or P.E. Foam	Dual Seal	240	240	0.6
26 - 100mm x 10mm	C.B or P.E. Foam	Dual Seal	240	240	
PE Foam		Closed Cell polyethylene backer rod (nominal density 35kg/m ³)			
CB		Ceramic Blanket Backing			

Properties

Packaging	310ml Cartridges / 600ml foils
Colour	White
Slump	Nil at joints up to 30mm
Shrinkage	Approximately 5%
Cure Rate	3mm per day at 50% relative humidity 25°C
Shore A Hardness	16
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	EN 1366-4 EI 300, BS 476 240mins
Air Permeability	600Pa EN 1026 - 100Pa 2.8/5.6 m ³ /h/m ²
Classification	EN 13501-2, ISO 11600
Acoustic Isolation	EN 140, EN 717 - 38dB (-2;-9)
Weathering	ISO 11431 - 250 cycles each 120 minutes / 102 mins of the cycle dry at 65°C lights at 550W/m ² over a wavelength of 290 - 800nm / 18 minutes wet, immersion, light off. Water to be at 25°C

Availability

Astro FR Silicone Sealant is supplied in rigid 310ml cartridge format for use with an applicator gun.

Name	Dimensions	Colour	Product Code
Astro FR Silicone	310ml cartridge	White	AFFRSW

To Order & Specify

Please quote - Quantity / Trade Name / Product Ref.

Typical example:-

10 / Astro FR Sealant / AFFRSW

Fire Test or Assessment Reports

Fire resistance testing to EN 1366-4 EI 300 and BS 476 240mins.

Fire Classification to EN 13501-2. Acoustic Isolation to EN 10140 to 38dB.

Certifire 3rd. Party Accreditation.

Air Permeability testing to EN 1026 to 600Pa.

Weathering testing to ISO 11431.

FR Silicone is manufactured in the EU, meeting the highest quality standard in compliance with BS EN ISO 9001:2008.

For specific fire insulation ratings contact Astroflame

Installation

Clean all joints free from dust, oil and grease and mask surrounding surfaces if necessary

Ensure gap is filled using one of the backing materials from the performance table (above).
Fill gap to the required depth, tool off for a smooth finish. Minimum depth to be 6mm

For further information see Installation Sheet.

Health and Safety

See COSHH datasheet for full details.

Environmental Impact

Fire Rated Silicone contributes to a Green Building:-
Low VOC (air quality).
No Power Tools required for installation (no energy source required).
Dust free.
Low Ozone Depletion Potential (ODP).
Low Global Warming Potential (GWP).
No water pollution.
Smoke and Air Tightness.
Noise Reduction.
Thermal Insulation.
Recycling of Packaging.
Avoidance of Air Filtration.
Does not emit halogenated by-products.
Contains no raw materials known to have an estrogenic effect.
The life cycle of FR Silicone is over 30 years.

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