

Trade Name: ASTRO EJ SEAL

Intumescent Expansion Joint Seals

Fire Rated Expansion Joint Seal /
Linear Joint Seal

Available up to 150mm gap size.

Joint movement capability of +/- 50%.

Fire resistance testing to EN 1366-4 E
120, EI120 and BS 476 240mins.

IET (IEE) 17th Edition Fire Stop
Compliant to Regulation 527.1-3 -
Electrical Installations.

BS 7671-2008 Chapter 42 & 52 -
Electrical Installations Fire
Resistance.

Acoustic Isolation to EN 10140 to
22dB.

Air Permeability testing to EN 1026 to
600Pa - 100Pa 3.3/1.7 m³/h/m² with
FLEXI COAT.

Highly flexible and water resistant.

Maintenance free.

Description

All expansion and movement joints in a fire separating wall and floor must be fire stopped with a material that will accommodate the required movement whilst providing the necessary degree of fire integrity.

ASTROflame Intumescent Expansion Joint Seal is an elastomeric foam laminated with a graphite-based, intumescent compound on both sides. It is designed to perform as a 2 or 4-hour barrier in construction movement joints, when tested to EN 1366-4 and BS476.

Designed for long linear joint installations in both horizontal and vertical applications it is a flexible and water resistant seal that expands when exposed to heat. The carbonaceous char formed by the graphite prevents the spread of fire through the joint thus ensuring the integrity of the compartment wall/floor is maintained.

Tested in block wall, concrete and masonry. Tested in concrete floors. Tested in linear joints up to 150mm wide.

Tested with cables, cable bunches, cable trays and cable trunking.



Certifire 3rd Party Accreditation

Joint movement capability of +/- 50%.

Maintenance free.

Halogen free, resists fungi and vermin

Properties and Specification

Colour	Black
Density	75Kg/m ³
Fire Resistance	4 hours - BS476 pt20/22; E 120 / EN 1366-4
Acoustic Performance	Acoustic Reduction up to 8Rw, 22DnTW EN10140
Air Permeability	200Pa EN 1026 - 100Pa 1581/1590 m ³ /h/m ² 600Pa EN 1026 - 100Pa 3.3/1.7 m ³ /h/m ² with Flexi-Coat®
Expansion Ratio	25 times
Maximum Size of Aperture	150mm
Maximum Size of Seal	170mm (other sizes can be requested)
Seal Length	1000mm
Seal Width	Various - see table
Movement Capability	+/- 50% (compression of 75% / expansion
Compression	75%
Expansion	40%

Areas of Use

Expansion Joint Seal is an extremely versatile filler material and can be used :

Between steelwork and blockwork where deflection and movement could occur.

In movement joints with blockwork walls and floors.

Top of wallhead to the underside of the floor - although gaps could be uneven ASTROflame Intumescent Expansion Joint Seal is extremely compressible and should accommodate to any irregularities.

Availability

Supplied in metre lengths. When ordering please state product code and number of metre lengths required.

120 Minute Fire Integrity				
Gap Size	Dimensions	Integrity	Insulation	Product Code
Up to 10mm	12 x 12mm	120 minutes	120 minute	AFEJ10/120
11 – 20mm	29 x 12mm	120 minutes	30 minutes	AFEJ20/120
21 – 25mm	32 x 20mm	120 minutes	30 minutes	AFEJ25/120
26 – 35mm	53 x 20mm	120 minutes	60 minutes	AFEJ35/120
36 – 50mm	61 x 35mm	120 minutes	60 minutes	AFEJ50/120
51 – 65mm	85 x 40mm	120 minutes	60 minutes	AFEJ60/120
66 – 75mm	90 x 50mm	120 minutes	120 minutes	AFEJ75/120

76 – 100mm	126 x 100mm	120 minutes	120 minutes	AFEJ100/120
101 – 120mm	147 x 125mm	120 minutes	120 minutes	AFEJ120/120
121 – 150mm	170 x 100mm	120 minutes	120 minutes	AFEJ150/120

240 Minute Fire Integrity

Gap Size	Dimensions	Integrity	Insulation	Product Code
Up to 10mm	12 x 25mm	240 minutes	120 minutes	AFEJ10/240
11 – 20mm	29 x 25mm	240 minutes	120 minutes	AFEJ20/240
21 – 25mm	32 x 30mm	240 minutes	60 minutes	AFEJ25/240
26 – 35mm	53 x 30mm	240 minutes	60 minutes	AFEJ35/240
36 – 50mm	61 x 50mm	240 minutes	120 minutes	AFEJ50/240
51 – 75mm	90 x 75mm	240 minutes	120 minutes	AFEJ75/240
76 – 100mm	126 x 125mm	240 minutes	240 minutes	AFEJ100/240
101 – 125mm	147 x 125mm	240 minutes	240 minutes	AFEJ125/240
126 – 150mm	170 x 125mm	240 minutes	240 minutes	AFEJ150/240

Packing

Sold individually in metre lengths.

To Order & Specify

To order or specify: Quantity / Trade name / Product Ref / Size (Width in mm) / Fire Integrity Rating.

Typical wording: 10 / ASTRO EJ SEAL / AFEJ20/120/ 20mm / 120 mins

Fire Test or Assessment Report

Fire resistance testing to EN 1366-4 E 120, Ei120 and BS 476 240mins.

IET (IEE) 17th Edition Fire Stop Compliant to Regulation 527.1-3 - Electrical Installations.
BS 7671-2008 Chapter 42 & 52 - Electrical Installations Fire Resistance.

Acoustic Isolation to EN 10140 to 22dB.

Air Permeability testing to EN 1026 to 600Pa - 100Pa 3.3/1.7 m³/h/m² with [FLEXI COAT](#)

Certifire 3rd Party Accreditation

Installation

To install compress a pre-cut length of intumescent Expansion Joint Seal, insert into the joint and release. A minimum compression of 15% per thickness of EJS material is recommended to ensure a tight friction fit.

Health and Safety

The product does not present any known health hazards during or after installation. Normal good industrial and personal hygiene practises should be observed.

Environmental Impact

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 is over 15 years.

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