

Trade Name: Astro LST Mastic

## Low Smoke & Toxicity Intumescent Mastic Sealant

Designed for use within enclosed areas such as tunnels and London Underground stations.

Tested for passenger carrying train systems to BS6853:1999 \* and LUL approved

Low smoke and toxicity levels.

Fire resistance testing to EN 1366-3 EI 120, EN 1366-4 EI 240 and BS 476 300mins.

Tested BS 6853:1999 D8.3: Smoke Ao (max)

Fire Classification to EN 13501-2.

Acoustic Isolation to EN 10140 to 48dB.

Tested BS 6853:1999 B.1: Toxicity R value

Air Permeability testing to EN 1026 to 600Pa.

Mechanical Adhesion and Tensile testing to EN ISO 8039 & EN ISO 9046.



Certifire Accreditation

### Description

A one part intumescent acrylic sealant designed to resist the passage of fire, by forming a char that prevents the passage of fire and smoke, while maintaining excellent low smoke and toxicity levels.

Astro LST Mastic is halogen free and does not emit halogenated by-products under fire conditions.

High performance 5 hour fire rating. Joint movement capability of +/- 12% .

Highly flexible and water resistant it has good unprimed adhesion to a wide variety of common building substrates.

Tested in Block Wall, Concrete, Masonry and Plasterboard Partition. Tested in Concrete Floors.

Tested in Linear Joints up to 50mm wide. Tested in large service openings up to 490 x 150mm.

Tested with Metallic Pipes, Cables, Cable Bunches, Cable Trays and Cable Ladders.

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

In normal use it maintains the sound reduction index of a structure.

Resists fungi and vermin.

This sealant contains no raw materials known to have an estrogenic effect in the environment.

## Applications Data

Floor & Wall Joint Size Width x Depth	Backing	Gap Face Material	Integrity Rating(mins)	Insulation Rating(mins)	Linear Metres per Cartridge
5mm x 10mm	PE Open Cell Foam	AAC/AAC	300	300	6.2
10mm x 10mm	PE Open Cell Foam	AAC/AAC	300	300	3.1
15mm x 10mm	PE Open Cell Foam	AAC/AAC	300	300	2.07
20mm x 10mm	PE Open Cell Foam	AAC/AAC	300	300	1.55
25mm x 15mm	PE Open Cell Foam	AAC/AAC	300	215	0.83
30mm x 15mm	PE Open Cell Foam	AAC/AAC	300	215	0.69
35mm x 20mm	PE Open Cell Foam	AAC/AAC	300	214	0.44
40mm x 20mm	PE Open Cell Foam	AAC/AAC	300	214	0.39
45mm x 25mm	PE Open Cell Foam	AAC/AAC	300	214	0.28
50mm x 25mm	PE Open Cell Foam	AAC/AAC	300	214	0.25
6mm x 15mm	PE Open Cell Foam	AAC/STEEL	300	91	4.13
10mm x 15mm	PE Open Cell Foam	AAC/STEEL	300	91	2.07
15mm x 15mm	PE Open Cell Foam	AAC/STEEL	300	91	1.38
20mm x 15mm	PE Open Cell Foam	AAC/STEEL	300	91	1.03
25mm x 15mm	PE Open Cell Foam	AAC/STEEL	300	91	0.83
30mm x 15mm	PE Open Cell Foam	AAC/STEEL	300	91	0.69

Insulation in floor reduces by 50%, however Integrity remains the same.  
 PE Foam Closed Cell polyethylene backer rod (nominal density 35kg/m<sup>3</sup>)  
 MMF Mineral fibre >90kg/m<sup>3</sup> density

## Properties

<b>Packaging</b>	310ml Cartridges
<b>Colour</b>	White
<b>Slump</b>	5mm after 1hr in 30mm joints
<b>Shrinkage</b>	Approximately 12%
<b>Cure Rate</b>	3mm per day at 50% relative humidity 23°C
<b>Shore A Hardness</b>	50
<b>Application Temperature</b>	+5°C to +30°C
<b>Tack Free</b>	15 minutes 23°C, 50% RH
<b>Water Resistance</b>	Good when fully cured
<b>UV Resistance</b>	Good
<b>Joint Movement</b>	±12% of original joint size
<b>Fire Resistance</b>	EN 1366-3 EI 120, EN 1366-4 EI 240 and BS 476 300mins
<b>Insulation</b>	EN 1366-3 & EN1366-4 120mins
<b>Smoke &amp; Toxicity</b>	BS 6853, ISO 4589
<b>Air Permeability</b>	EN 1026 to 600Pa - 100Pa 11.1/2.8 m <sup>3</sup> /h/m <sup>2</sup>
<b>Classification</b>	EN 13501-2, ISO 11600

LST Mastic is not affected by an outdoor environment. However, for long term storage and ease of installation, it is recommended that it should be stored indoors ideally in dry frost free conditions above 0°C and below +30°C.

## Availability

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Astro HPE Sealant is supplied in rigid 310ml cartridge format for use with an applicator gun, 25 tubes per pack.

Name	Dimensions	Pack Size	Colour	Product Code
Astro LST Mastic	310ml cartridge	25 per pack	White Only	AFIMLST

## To Order & Specify

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Please quote: Quantity / Trade Name / Product Ref.  
Typical example: 2 Packs / Astro / AFIMLST

## Fire Test or Assessment Reports

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\* BS6853:1999 is the code of practice for fire precautions in the design and construction of passenger carrying trains.

Tests used to access this were ISO 4589-2 (Oxygen Index) : ISO 4589-3 (Temperature Index) : BS6853:Annexe D.8.3 (3m Cube small test) : BS6853:Annexe B1 (mass based toxicity test method NFX 10-700).

Fire resistance testing to EN 1366-3 EI 120, EN 1366-4 EI 240 and BS 476 300mins.

Tested BS 6853:1999 D8.3: Smoke Ao (max)

Fire Classification to EN 13501-2.

Acoustic Isolation to EN 10140 to 48dB.

Tested BS 6853:1999 B.1: Toxicity R value

Air Permeability testing to EN 1026 to 600Pa.

Mechanical Adhesion and Tensile testing to EN ISO 8039 & EN ISO 9046.

<b>BS 6853:1999 D8.3: Smoke Ao (max)</b>	0.004
<b>BS 6853:1999 B.1: Toxicity R value</b>	0.19
<b>ISO 4589 Temperature Index</b>	290°C
<b>ISO 4589 Oxygen Index</b>	29.2%

For specific fire insulation ratings contact Astroflame

## Health and Safety

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See COSHH datasheet for full details.

## Environmental Impact

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LST Mastic 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 LST Mastic is over 20 years.**

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