
Trade Name: ASTRO INTU MASTIC
Intumescent Acoustic Mastic

Intumescent Mastic with Acoustic Rating.

For interior or exterior use.

Advanced intumescent formulation.

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

Fire Classification to EN 13501-2.

Acoustic Isolation to EN 10140 to 48dB.

Air Permeability testing to EN 1026 to 600Pa - 100Pa 0.0/0.0 m³/h/m².

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

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

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

Joint movement capability of +/- 20%.

Highly flexible and water resistant.

Halogen free, resists fungi and vermin.

NHBC Type Approval



Description

A one part intumescent acrylic mastic for sealing gaps around fire doors, window frames and for sealing joints, voids and irregular holes in fire rated structures. The sealant forms a char, preventing the passage of fire and smoke, when exposed to the heat of a fire.

Maintains fire integrity when sealing around pipes and cables that penetrate walls.

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 for sealing of linear joints in concrete floors, masonry walls and plasterboard including head of wall details.

Tested around metallic pipes, cable trays, cable bunches, small, medium and large cables.

Sealant remains highly flexible after installation

In normal use the mastic will maintain the sound reduction index of a structure.

The mastic has been independently tested in accordance with BS476 and EN requirements. It can provide up to 300 mins of fire resistance depending on depth/width and volumetric area - please refer to the Performance Table below.

It has good unprimed adhesion to a wide variety of common building substrates. although we do recommend that a small area is tested on unusual substrates.

Properties

Packaging	310ml cartridges 25 / 12 per box		
Colour	White, Grey or Brown (other colours by request)		
Slump	5mm after 1hr in 30mm joints		
Shrinkage	Approximately 12%		
Cure Rate	3mm per day at 50% relative humidity 23°C		
Shore A Hardness	50		
Application temperature	+5°C to +30°C		
Tack Free	15 mins at 23°C, 50% RH		
Water Resistance	Good when fully cured		
U.V Resistance	Good		
Joint Movement	±20% of original joint size		
	Reference Wall	Wall with Single Seal	Wall with Double Seal
Average SRI (100 – 3150Hz)	44.4dB	42.9dB	45.1dB
Weighted SRI, Rw Index	47dB	46dB	48dB
STC Rating	47dB	46dB	48dB

Performance Table

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
10mm x 12.5mm	PE Open Cell Foam	PB/AAC	120	120	2.9
20mm x 12.5mm	PE Open Cell Foam	PB/PB	120	120	1.45
Small Cables	None	PB/PB	120	120	N/A
Medium Cables	None	PB/PB	120	120	N/A
Large Cables	MMF	PB/PB	120	120	N/A
Metallic Pipes	None	PB/PB	120	120	N/A

* Insulation in floor reduces by 50%, however Integrity remains the same.

The fire resistance tests have been achieved through testing according to EN 1366-3, EN 1366-4 & BS 476 Part 20 & 22/1987 are specific to the conditions of test. They do, however, provide a good indication of the expected performance of the sealant in fire situations. To achieve a specific fire rating, all substrates being used in the system must have equivalent fire ratings.

Availability

PRODUCT CODES: Brown - AFMIB : Grey - AFIMG : Off White - AFIMW

Supplied in 310ml cartridges.

To Order

Call 01793 847 444

Fire Test or Assessment Report

BS476 Part 20: 1987
EN1366-3 EI120, EN1366-4 EI120, EN13501-2
EN1026 Air Permeability
EN10140 Acoustic Reduction
PR EN1366-4
Loss Prevention Council CC89629
NHBC Type Approval.

Colours

Brown, Grey and Off White (which can be over painted if required).

Health and Safety

Do not ingest. Avoid contact with the skin and eyes. Use barrier cream and/or gloves. Normal good industrial practices 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 Intumescent Mastic is over 20 years.

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