



Suppliers of passive fire products, acoustic and specialist insulation  
Manufacturers of the Safire® Fire Stopping Range

## Safire® Intumescent Acoustic Acrylic Mastic

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### DESCRIPTION

Safire® Intumescent Acoustic Acrylic Mastic is a halogen free, polymer emulsion based sealant that swells when subjected to temperatures in excess of 1250C and forms a char coat that restricts the passage of smoke and fire. It is easily applied and dries to a flexible and smooth surfaced material which is readily over paintable. It has excellent adhesion to a wide range of substrates and will not harden or crack with age.

### SPECIFICATION COMPLIANCE

Safire® Intumescent Acrylic mastic has been independently tested to the following assessments:

- an indicative fire test based on BS476 Part 20 at Warrington Fire Research and achieved a 4 hour fire rating (integrity) for a range of vertical and horizontal joints up to 35mm wide between various non-combustible construction materials. A 1 hour fire rating (integrity) was achieved for a range of vertical joints up to 25mm wide between combustible materials (timber).
- Naval Engineering standard test NES 711, issue 3 and achieved an average toxicity index of 0.44.
- Sound tested for acoustic performance values and achieved values of between 46 and 55 dBA indicating the sealant should uphold acoustic performance requirements of most normal partitioning systems.

### APPLICATIONS

Safire® Intumescent Acrylic mastic forms a fire and smoke seal in joints up to 35mm wide without slumping. It is ideal for sealing joints in and around internal partitions, lap joints in fire-rated cladding and for sealing between fire doors and fire-rated walls. It is recommended that a sealant depth of at least 15mm be applied. If the sealant is to be overpainted, building regulations may require a fire resistant coating.

### LIMITATIONS

Safire® Intumescent Acrylic mastic is not suitable in joints where movement exceeds + or - 15% of joint width, or in external joints.

### TECHNICAL DETAILS

Movement Accommodation:	+ or - 15%
Skimming Time:	15 mins to 1 hour depending on conditions.
Cure time:	5 to 15 days for 15mm X 20mm bead.
Hardness Shore A:	25 - 30
Temperature Resistance:	-20oC to +70oC
Paintability:	With most paints.
Application Temperature:	+5oC to 40oC
Cleaning:	Uncured sealant with water.
Shelf Life:	min. 12 months when stored in unopened containers as recommended.
Specific Gravity:	1.62 – 1.66

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### APPLICATION INSTRUCTIONS

To achieve a high quality joint, clean all surfaces, remove dust and ensure surfaces are dry. Non porous surfaces should be degreased using a suitable degreasing agent. Highly porous surfaces should be sealed with a suitable primer. Apply masking tape to each side of joint and gun sealant firmly into joint, smoothing off with a wetted spatula. Masking tape should be removed within 10 minutes of application.

### COVERAGE

1 tube is sufficient to produce approx. 1m using a 20mm x 15mm bead.

### STORAGE

Store in cool dry conditions. Protect from frost.

### HEALTH AND SAFETY

Safire® Intumescent Acrylic mastic presents no known health hazards when used as recommended. Consult Health and Safety data sheet for further information. As with all chemical product, care should be taken during use and storage to avoid contact with foodstuffs, skin, eyes and mouth. If accidentally ingested, seek medical attention do not induce vomiting and give copious amounts of water to drink. **KEEP AWAY FROM CHILDREN AND ANIMALS.**

### Further Information

These data are offered in good faith as typical values and not as a product specification. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.

# Safire® Intumescent Acoustic Acrylic Mastic

## SOUND INSULATION - ISO 717 (1982)

Specimen tested:

Drywall partition

2 x 15mm plasterboard

70mm cavity with 25mm Rockwool

2 x 15mm plasterboard

6 x slots approx 1000mm long x 25mm wide

Intumescent acrylic mastic applied to slots

Wiped flush

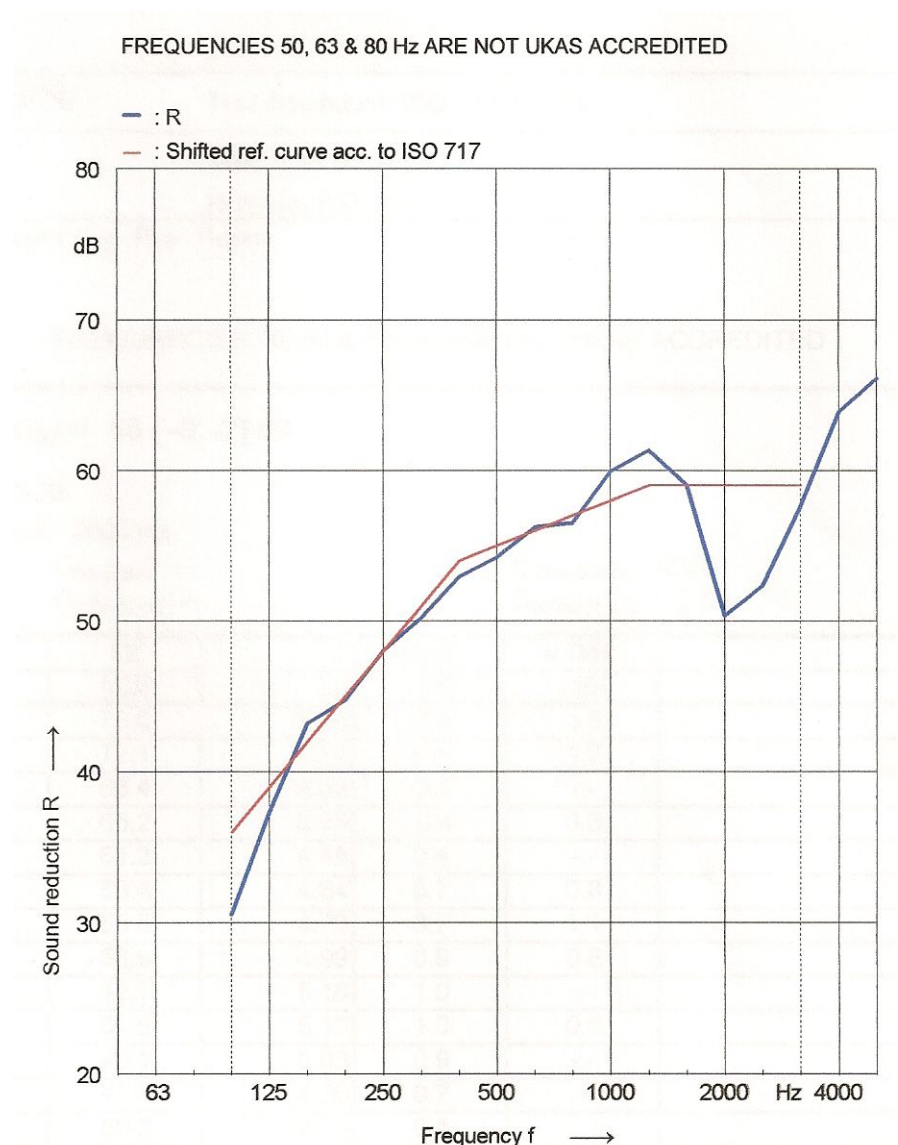
Size: 8.64m<sup>2</sup>

Mass per unit: 58.02 kg/m<sup>2</sup>

Source room volume: 136m<sup>3</sup>

receiving room volume: 220m<sup>3</sup>

Frequency [Hz]	R 1/3 oct. [dB]
50	--
63	--
80	--
100	30.5
125	37.3
160	43.2
200	44.7
250	48.0
315	50.2
400	52.9
500	54.2
630	56.2
800	56.5
1000	59.9
1250	61.3
1600	59.0
2000	50.3
2500	52.3
3150	57.6
4000	63.9
5000	66.1



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