



JCP CONSTRUCTION PRODUCTS

Intumescent Mastic

Part No: JFIREMAS

DESCRIPTION

A one part, halogen free, polymer emulsion based sealant that swells when subject to temperatures in excess of +125°C 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 paintable. It has excellent adhesion to a wide range of substrates and will not harden or crack with age.



USES

Typical applications include; sealing joints around internal partitions, joints between fire rated doors and fire rated walls, ductwork and service penetrations, sealing fire protection boards, lap joints in fire rated cladding. It is recommended that a sealant depth of at 15mm is applied.

If the sealant is to be overpainted, building regulations may require a fire resistant coating.

APPLICATION INSTRUCTIONS

The correct application of the sealant is essential to achieving the level of fire retardancy and acoustic levels obtained during the tests.

Surfaces to which the Intumescent Mastic and Acoustic Sealant is to adhere must be clean and free from dust and loose material, standing water and other contaminants which might otherwise impair the bond.

Non-porous surfaces such as aluminium should be cleaned with a suitable product to remove any oil, grease or dirt film. Highly porous surfaces should be sealed with a suitable primer.

Apply masking tape to either side of joint and gun sealant firmly into joint, smoothing off with a wet spatula. Masking tape should be removed within 10 minutes of application.

LIMITATIONS

Intumescent and Acoustic sealants generally should not be used in situations where abrasion from pedestrians or traffic may be encountered, or for submerged joints in porous substrates, which may permit water to reach the bond interface.

Always check to determine suitability of the sealant on surface that may give cause for concern.

Not suitable in joints where movement exceeds $\pm 15\%$ of joint width or in external joints



TECHNICAL DETAILS

Specific Gravity	1.62 - 1.66
Skinning time	15mins to 1Hr dependin upon conditions
Full cure	5 15 days for 15mm x 20mm bead
Shore A hardness	25-30
Service temperature range	-20°C to +70°C
Application temperature range	+5°C to +40°C
Movement accommodation	±15%
Paintability	With most paints
Cleaning	Uncured sealant with water

Slump resistance Excellent. May be used in joints up to 35mm wide

Shelf Life 18 months when stored in unopened cartridges in cool dry conditions

Life expectancy When used and applied correctly the sealant will perform in excess of 20 years

Chemical resistance The cured sealant is unaffected by water, dilute acids and alkalis, soap and household detergents. Certain solvents may soften and swell the rubber on prolonged contact.

SPECIFICATION COMPLIANCE

BS EN 1366-3 2004 & BS EN 1366-4 at Warrington Fire Research. Achieved 4 hour integrity and insulation rating for a range of linear and penetration seals.

An indicative fire test based on BS476 Part 20 achieved a 4 hour fire rating (integrity) for a range of vertical and horizontal joints up to 35mm wide between various non-combustible materials. A 1 hour fire rating was achieved for a range of vertical joints up to 25mm wide between combustible materials (timber)

BS EN ISO 140-3 1995 Measurement of Airborne Sound Insulation of Building Elements

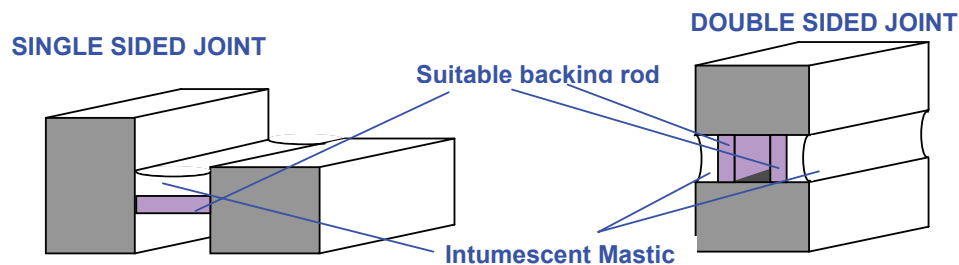
The sealant maintained the integrity of a plasterboard partion wall with a Sound Reduction Index of 55dB

COVERAGE

1 Cartridge is sufficient to seal approximately 1mt with a 20mm x 15mm bead

STORAGE

Store in cool dry conditions. PROTECT FROM FROST



TYPICAL FIRE RESISTANCE

Joint Type	Width mm	Depth mm	Insulation mins.	Integrity mins.
Single	15	10	233	255
Double	40	25	264*	264*
Single	25	15	138	264*
Double	15	10	264	264*

* Test stopped after 264 mins

HEALTH & SAFETY

Obey normal Health & Safety and hygiene rules. Consult health & Safety Data Sheet

SALES OFFICES

Dartford	01322 277733	Stone	01785 819819
Elland	01422 370121	Swindon	01793 527829
Milton Keynes	01908 330050		