

## Fire Rated Acrylic Sealant



### Features and Benefits

- FR Acrylic is a halogen free, polymer emulsion based sealant that swells when subjected 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 over paintable
- It has excellent adhesion to a wide range of substrates and will not harden or crack with age

### Application

- FR acrylic 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 8mm be applied
- If the sealant is to be over painted, building regulations may require a fire resistant coating

### Storage

- Store in cool dry conditions
- Protect from frost

### Coverage

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

### Limitations

- FR acrylic is not suitable in joints where movement exceeds  $\pm 7.5\%$  of joint width, or in external joints

### Packaging

- 310ml cartridges

### Method of use

- 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

### Health & Safety

- FR Acrylic sealant 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**

This technical data sheet replaces all previous editions. The data on this sheet have been compiled according to the last laboratory report. Technical characteristics can be changed or adapted. We are not responsible for any incomplete information. Before use, one needs to ensure that the product is suitable for his application. Therefore tests are necessary. Our general conditions apply.

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### Technical Characteristics

Movement Accommodation	± 7.5% Conforms to ISO 11600 7.5P
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	-20°C to +60°C (intermittent)
Paintability	With most paints
Application Temperature	+5°C to 40°C
Cleaning	Uncured sealant with water
Shelf Life	min. 18 months when stored in unopened containers as recommended
Specific Gravity	1.60 – 1.64

### Specification Compliance

FR acrylic has been independently tested to the following assessments:

BS EN 1366-3: 2004 & BS EN 1366-4: 2006 Tested at Bodycote Warrington Fire, report No. 173658A achieving 4 hour integrity and insulation rating for a range of linear and penetration seals

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)

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

University of Salford reports 125-76;77 and 79

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

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