

# INTUMESCENT & ACOUSTIC ACRYLIC SEALANT

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Issue: 1



## FIRE RATED MULTI-USE SEALANT

Ideal for sealing partition joints, lap joints in fire-rated cladding and for sealing between fire doors and fire-rated walls.

- Forms a fire and smoke seal in joints up to 35mm wide without slumping.
- Expands when exposed to temperatures in excess of 125°C to prevent the passage of fire and smoke.
- Halogen free, polymer emulsion based sealant.
- Easily applied and dries to a flexible and smooth surfaced material which is readily overpaintable.
- Excellent adhesion to a wide range of substrates.
- Will not harden or crack with age.



# Technical Data



## FIRE

The sealant has been tested to a range of fire standards, and has achieved the following ratings:

- BS EN 1366-3: 2004 & BS EN 1366-4: 2006:
  - 4 hours integrity and insulation rating for a range of linear and penetration seals, tested at Bodycote Warrington Fire, report No. 173658A.
- BS476 Part 20:
  - 4 hours fire rating (integrity) for a range of vertical and horizontal joints up to 35mm wide between various non-combustible construction materials.
  - 1 hour fire rating (integrity) for a range of vertical joints up to 25mm wide between combustible materials (timber).

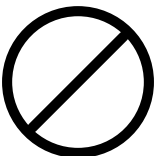
These results demonstrate that the sealant is a high-performance product that can be used to provide fire protection in a variety of applications.



## ACOUSTIC

The sealant has been tested to the BS EN ISO 140-3 standard and achieved a Sound Reduction Index of 55dB. This means that the sealant can reduce the amount of airborne sound that passes through a plasterboard partition wall by 55dB. The test was conducted at the University of Salford and the results are reported in reports 125-76, 77, and 79.

These results demonstrate that the sealant is a high-performance product that can be used to improve sound insulation in a variety of applications.



## LIMITATIONS

Guardian 4 Fire acrylic is not suitable in joints where movement exceeds  $\pm 7.5\%$  of joint width, or in external joints.



## HANDLING

- Wear gloves and eye protection when handling the sealant.
- Keep out of reach of children and animals
- Do not breathe in the fumes.

## Technical Data



### APPLICATION

To achieve a high-quality joint, follow these steps:

1. Clean all surfaces to be sealed, removing dust and ensuring that they are dry.
2. Non-porous surfaces should be degreased using a suitable degreasing agent.
3. Highly porous surfaces should be sealed with a suitable primer.
4. Apply masking tape to each side of the joint.
5. Apply the sealant firmly into the joint using a caulking gun, smoothing off with a wetted spatula.
6. Remove the masking tape within 10 minutes of application.

It is recommended that a sealant depth of at least 8 mm be applied. If the sealant is to be overpainted, building regulations may require a fire resistant coating.



### HEALTH & SAFETY

- Guardian sealant presents no known health hazards when used as recommended. However, as with all chemical products, care should be taken during use and storage to avoid contact with foodstuffs, skin, eyes, and mouth.
- If the sealant comes into contact with the skin, wash the area immediately with soap and water.
- If the sealant gets into the eyes, flush them immediately with water for at least 15 minutes and seek medical attention.
- If the sealant is ingested, do not induce vomiting. Give the victim plenty of water to drink and seek medical attention immediately.
- For more information on health and safety, please consult the product's Safety Data Sheet.

# INTUMESCENT & ACOUSTIC ACRYLIC SEALANT

Multi-use sealant for construction applications

## Technical Data



### TECHNICAL

<b>Movement Accommodation</b>	± 7.5% Conforms to ISO 11600 7.5P
<b>Skinning Time</b>	15 mins to 1 hour depending on conditions
<b>Cure time</b>	5 to 15 days for 15mm X 20mm bead
<b>Hardness Shore A</b>	25 - 30
<b>Temperature Resistance</b>	-20oC to +60oC (intermittent)
<b>Paintability</b>	With most paints
<b>Application Temperature</b>	+5oC to 40oC
<b>Cleaning</b>	Uncured sealant with water
<b>Shelf Life</b>	min. 12 months when stored in unopened containers as recommended
<b>Specific Gravity</b>	1.60 – 1.64