

# MULTI-USE INTUMESCENT & ACOUSTIC ACRYLIC SEALANT

Date: 19/01/2021

Reference: 12

Issue: 1



Guardian 4 Fire acrylic is a halogen free, polymer emulsion based sealant that swells when subjected to temperatures in excess of 125oC 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

Guardian 4 Fire 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.

## APPLICATIONS

Guardian 4 Fire 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 8 mm be applied. If the sealant is to be overpainted, building regulations may require a fire resistant coating.

## LIMITATIONS

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

## COVERAGE

1 tube is sufficient to produce approx. 30m using a 3mm x 3mm bead.

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## TECHNICAL DETAILS

<b>Movement Accommodation</b>	± 7.5% Conforms to ISO 11600 7.5P
<b>Skimming 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

## 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.

## HEALTH AND SAFETY

Guardian 4 Fire 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.**

## STORAGE

Store in cool dry conditions. **PROTECT FROM FROST.**

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