

Technical Data

FIRE SEALANT 300

Intumescent & Acoustic Sealant



Description

FIRE SEALANT 300 is a five hour rated, one part, emulsion acrylic based, intumescent sealant that gives a firm yet flexible seal to joints in a variety of fire rated structures. Tested in accordance with BS EN 1366-4:2006 as detailed in Warrington Fire Research Report No.181967 (May 2009) The product, in suitably designed joints will resist the passage of fire for up to 5 hours. The selected fillers used in this formulation also make it suitable for use as an acoustic sealant.

Benefits

- Tested to BS EN 1366-4 : 2006
- CE Marked under ETAG Part 3 ETA13/1058
- When exposed to heat, it swells greater than 3 x it's original size, so creating a char that will resist the passage of fire for up to 5 hours.
- No priming required for most construction substrates.
- Joint movement capability of +/- 12.5%.
- For use in joints up to 50mm wide.
- Halogen free.
- Non slump - easy to apply and tool off.
- Fast cure - tack free in 15 minutes.
- Over paintable.
- Excellent acoustic properties for sound deadening –average noise reduction of 38db(100-3150Hz).

Recommended For

Sealing joints, voids and irregular holes in fire walls, partitions and other structures; also for maintaining the integrity of pipes and cables that penetrate them.

For internal perimeter pointing of fire rated door and window frames.

Specification Compliances

- Tested in accordance with BS EN 1366-4:2006 as detailed in Warrington Fire Research Report No. 181967 (May 2009).
- Acoustic rated to BS EN ISO 140/3:2005
- Tested for Air permeability to EN13141-1 Ventilation for buildings. Performance testing of components/products for residential ventilation.
- ETAG 026 Part 3 European Technical Assessment 13/1058



Available in

380ml Cartridges and 600ml Foil Packs in the following colours:

- White
- Grey
- Black

Storage

Store in cool dry conditions between + 5°C and 30°C.

Shelf Life

Use within 24 months.

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Health & Safety

Consult MSDS for full list of hazards.

Specific Data

| | |
|-----------------|---|
| Slump | Nil in joints up to 50mm |
| Max Joint Width | 50mm |
| Working Time | 10 Minutes |
| Skin Over Time | 10 Minutes |
| Tack Free Time | 15 Minutes |
| Joint Movement | + / - 12.5% of Original Size |
| Cure Rate | 1mm / 24hrs at 50% Relative Humidity 23°C |
| Fire Test Temp | 1160°C - Intumescent @ ca. 135°C |
| Cleaning | Uncured with a dampened cloth |

Joint Dimensions

For maximum movement accommodation, it is recommended that:

1. The sealant joint depth should be no less than 5mm
2. Joint depth should be 5mm for joints up to 10mm wide
3. Joints above 10mm in width should be half the width in depth up to 20mm and minimum 10mm for wider joints

Joint depth may be adjusted to the correct size using EVERBUILD JOINT BACKER ROD or BOND BREAKING TAPE in cases where there is not sufficient depth to use Backer Rod.

Movement Factors

+/- 12.5% flexibility. For greater movement accommodation use EVERBUILD FIRE SEALANT 400.

Limitations

- Not for use on substrates that may bleed oils, solvents or plasticisers.
- Not for use where joints are constantly immersed in water, or as part of glazing systems.

Joint Width Calculation

Joint widths are calculated as in BS6213:

$$\text{Width} = \frac{M \times 100}{F} + M$$

Where M = movement and F = movement accommodation Factor

Surface Preparation

All surfaces must be clean, dry and dust free. All loose or flaking surface coatings, and old sealant and mastic joints, should be removed before application.

Primer

FIRE SEALANT 300 does not require a primer on most common surfaces, although adhesion tests are recommended prior to full scale application. If the joint is likely to be immersed or if adhesion is poor (especially on porous surfaces) use FIRE SEALANT 400.

Fire Rating Tables

Fire Test Results - Wall Specimens

| SPECIMEN | GAP FACE MATERIAL COMBINATION | WIDTH/DEPTH (MM) | BACKING MATERIAL | INTEGRITY (MINS) | INSULATION (MINS) |
|----------|-----------------------------------|------------------|-------------------|------------------|-------------------|
| E | Aerated concrete/steel | 30/15 | PE Open Cell Foam | 300 | 91 |
| F | Aerated concrete/aerated concrete | 20/10 | PE Open Cell Foam | 300 | 300 |
| G | Aerated concrete/aerated concrete | 10/10 | PE Open Cell Foam | 300 | # |
| H | Aerated concrete/aerated concrete | 30/15 | PE Open Cell Foam | 300 | 215 |

Fire Test Results - Floor Specimens

| SPECIMEN | GAP FACE MATERIAL COMBINATION | WIDTH/DEPTH (MM) | BACKING MATERIAL | INTEGRITY (MINS) | INSULATION (MINS) |
|----------|-----------------------------------|------------------|-------------------|------------------|-------------------|
| A | Aerated concrete/aerated concrete | 30/15 | PE Open Cell Foam | 300 | 66 |
| B | Aerated concrete/aerated concrete | 20/10 | PE Open Cell Foam | 300 | 133 |
| C | Aerated concrete/aerated concrete | 10/10 | PE Open Cell Foam | 300 | # |
| D | Aerated concrete/aerated concrete | 50/25 | PE Open Cell Foam | 300 | 214 |

Evaluation against the insulation criteria of the standard could not occur due to the width of the specimen. The overall test was discontinued after a period of 300 mins.

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