

Technical Data

FIRESEAL 300

Intumescent & Acoustic Sealant



Description

FIRESEAL 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.

Benefits

- 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 +/- 20%.
- 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.
- Overpaintable.

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 following the principles of BS 476 part 20 (1987) as detailed in Warrington Fire Research Report No. 144508/B (Feb 2005).

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.



Available in

380ml Cartridge and 600ml Foil Pack in the following colours:

White
Grey

Product Specification

Cartridge Dimensions:

27.6cm High x 4.9cm Wide

Cartridge Barcode: 5029347603984

(same barcode for all colours)

Cartridge Box Qty: 25

Cartridge Boxes / Pallet: 48

Foil Pack Dimensions:

33.4cm High x 4.6cm Wide

Foil Pack Box Qty: 12

Foil Pack Boxes / Pallet: 60

Storage

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

Shelf Life

Use within 12 months.

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Health & Safety

Non Hazardous in normal use.

If contact occurs wash thoroughly with water.

Keep out of reach of children.

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	+ / - 20% of Original Size
Cure Rate	3mm / 24hrs at 50% Relative Humidity 23°C
Fire Test Temp	1160°C - Intumescent @ ca. 135°C
Cleaning	Uncured with a dampened cloth
Life Expectancy	15 Years

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.

Movement Factors

+/- 20% flexibility. For greater movement accommodation use EVERBUILD PYROMATE.

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 structural 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

FIRESEAL 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 EVERBUILD PYROMATE.

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.