

Pyrogard Fire Foam

Fire Rated Expanding Foam for Sealing Fire Door Frames and Linear Gaps

*Durable Polyurethane Foam with up to 4 hours fire rating
Approved to AS1530.4:2005, AS1905.1:2015 and up to -/240/240*



Technical Data Sheet

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KEY BENEFITS

- Expanding Polyurethane Foam
- High Performance – up to 4 hours fire rating in linear gaps
- Approved for 2 hour fire doorsets
- Approved to AS1530.4:2005 and AS1905.1:2015
- Excellent adhesion
- 50 times expansion of original volume
- Manufactured to ISO EN9001

INTRODUCTION



PYROGARD FIRE FOAM is a quick setting one-part polyurethane foam with excellent fire resistance properties.

PYROGARD FIRE FOAM expands on application to up to 50 times its original volume to fill any available voids and gaps, but without any excessive pressure on building substrates or wall structures. Approved for 2 hour fire doorsets, up to 2 hours in most joint configurations and 4 hours on concrete walls, PYROGARD Fire Foam provides one of the simplest forms of fire rating irregular voids and apertures.

Once cured, the foam can be cut, sawn or plastered over within only one hour of application (based on an ideal working temp of 20°C).



SPECIFICATION

Expansion	37 litres (750ml can)
Tack Free	Approx. 8 minutes
Cell Structure	Medium fine
Cuttable	20mins to 1hr depending on bead dimensions
Full Stability	Approx. 12 hours (20mm bead)
Working Temps	5°C – 25°C (Optimum 20°C)
Tensile Strength	18N/cm ² (DIN 53455)
Elongation at Tension	30% (DIN 53455)
Shear Strength	8N/cm ² (DIN 53422)
Flexural Strength	20N/cm ² (DIN 53423)
Compressive Strength	5N/cm ² (DIN 53421) at 10% stress
Water Absorption	0.3 Vol % (DIN 53428)
Thermal Conductivity	0.04 W/Mk (DIN 52612)
Cured Temp Res	Long Term: -40 ⁰ to +100°C Short Term: -40 ⁰ to +130°C
Fire Test Data	Exova Warrington Report 326231A/B CSIRO Report FCO-3001

FIRE RATING PERFORMANCE

Gap Substrate	Sealant Size (mm)	Integrity (min)	Insulation (mm)
Concrete / Softwood	15 - 250	120	120
Concrete / Hardwood	33 - 250	120	120
Concrete Wall	15 - 250	240	240
Concrete Floor Slab	15 – 250	180	180
Concrete / Rockwool	50 - 100	120	120
Fire Door Frame	150mm frame backfill	120	30



INSTALLATION

1. ALWAYS WEAR PROTECTIVE GLOVES.
2. Shake can well before use (about 20 times).
3. Carefully fix nozzle to the top of can. Do not over-tighten or force.
4. ALWAYS USE CAN UPSIDE DOWN.
5. Only partially fill cavities, as the foam will continue to expand after you release the nozzle to fill the remaining space. Any excess foam can be removed whilst still wet. Cured foam must be removed mechanically by cutting or sawing.
6. Always remove nozzle from can/gun and clean immediately after use.

STORAGE & DISPOSAL

Store upright between 20°C and 25°C in the pressurized container. Protect from sunlight and do not expose to temperatures above 50°C. Do not pierce or burn the can even after use. Store as flammable liquid.

Note: Elevated temperatures will reduce the shelf life dramatically.

HEALTH AND SAFETY

To learn more about the safe handling of Pyrogard Fire Foam, see the Material Safety Data Sheet available at www.bossfire.com.au.

LIMITATION

BOSS Fire & Safety Pty Ltd has provided the above technical information in good faith and to the best of its knowledge. This information was deemed to be correct at the time of publication. Should any data come to BOSS Fire & Safety's attention relating to the fire resistance or performance of the product described, BOSS Fire & Safety reserve the right to amend this report.

BOSS Fire & Safety strive to constantly improve and develop products so this information may change without notice.

FURTHER TECHNICAL INFORMATION

For additional technical information on the performance of Pyrogard Fire Foam or other BOSS products please contact our Technical Services team on:

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