

Pyrogard Fire Foam

Fire Rated Durable Polyurethane Expanding Foam for Filling Cavities and Linear Gaps
Approved to AS1530.4: 2014 & AS4072.1-2005



Technical Data Sheet

Edition 3

Published: June 2021

Offering up to 4 hours fire protection....



KEY BENEFITS

- Expanding Polyurethane Foam
- High Performance – up to 4 hours fire rating in linear gaps
- Approved for various size gaps and cavity fill
- Approved to AS1530.4: 2014 and AS4072.1-2005
- Excellent adhesion to various substrates
- Up to 50 times expansion of original volume



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 voids and gaps, creating a fire resistant seal which can block dust, noise and draft without any excessive pressure on building substrates or wall structures. **Pyrogard Fire Foam** is certified for use in both walls and floors and provides one of the simplest forms of fire rating irregular voids, apertures or linear gap seals.

Pyrogard Fire Foam provides excellent adhesion to a number of different substrates including Timber Softwood, Timber Hardwood, rock fibre wool and autoclaved aerated concrete. 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).

PHYSICAL SPECIFICATION

Expansion	37.5 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° to +100°C Short Term: -40° to +130°C
Fire Approvals	AS1530.4: 2014 & AS4072.1-2005.



PERFORMANCE SPECIFICATIONS

Pyrogard Fire Foam carries approvals including AS1530.4: 2014 and AS4072.1-2005 offering up to 4 hours fire protection. Please refer to the further tables contained in this document for summary specific performance information relevant to each various application. Please also reference the relevant certification reports.

IMPORTANT:

In order to ensure performance and compliance, passive firestopping products must be installed in accordance with the test evidence, manufacturer's specifications or be the subject of a performance solution.

Each project and/or application may have specific requirements and you should investigate these carefully.

Ensure that you read and understand the appropriate certification and how it relates to your specific construction details, and ensure you seek acceptance from the Certifying Authority or compliance inspector before installation. Ensure your installation is carried out in accordance with the test certification, manufacturer's instructions, and in accordance with the relevant local building regulations, National Construction Code or Building Code.

For updates on the range of BOSS Fire® certification please contact BOSS Technical Services. +612 9531 8591 OR info@bossfire.com.au

LINEAR GAP SEALS AND CAVITY FILL

Orientation	Element	Gap Substrate	Gap Width x Depth (mm)	FRL	Certification Reference
Wall	Autoclaved Aerated Concrete Walls 250mm Thick	Concrete / Softwood	15 x 250	-/180/180	CSIRO FCO-3001 Rev A
Wall		Concrete / Hardwood	15 x 250	-/180/180	
Wall		Concrete / Concrete	15 x 250	-/240/240	
Wall		Concrete / Rockwool / Concrete	50 x 100	-/240/240	
Floor	Autoclaved Aerated Concrete Floors 250mm Thick	Concrete / Rockwool / Concrete	50 x 100	-/180/180	
Floor		Concrete / Concrete	35 x 250	-/60/60	
Floor		Concrete / Concrete	25 x 250	-/90/90	
Floor		Concrete / Concrete	15 x 250	-/180/180	



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

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 Safety Data Sheet available at bossfire.com

IS THIS PUBLICATION CURRENT?

This document may be superseded by new versions. If you are unsure of whether or not this document is a current publication, please call us on +61 2 9531 8591 to confirm.

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.

The information contained herein has been developed as a guide only and it does not constitute a guarantee of compliance of all applications. Each project and/or application may have specific requirements and you should investigate these carefully. Ensure that you have read and understood the appropriate certification relative to your needs, and ensure you seek acceptance from the Certifying Authority or compliance inspector before installation. For updates on the range of BOSS Fire® certification please contact BOSS Technical Services. +61 2 9531 8591

FURTHER INFORMATION

For additional technical information on the performance of BOSS Pyrogard Fire Foam, other BOSS Fire® products or any other BOSS Fire® related information please contact us on:

**POTTER**
INTERIOR SYSTEMS**Distributed By****PH:** 0800 POTTERS**W:** potters.co.nz