



Fire Rated Foam

Sealing Gaps in Concrete, Blockwork and
Timber Constructions

Technical Data Sheet

Product Description

Abesco FR Foam is designed to maintain the fire resistance of compartment walls and floors by sealing gaps in concrete, blockwork and timber constructions. FR Foam is a one-component polyurethane foam and cures by moisture absorption. FR Foam is ideal for sealing redundant service apertures, around timber door frames, uPVC, timber and metal window frames and other breakthroughs in walls, cavities and floors. FR Foam exhibits excellent adhesion to most common building surfaces and once cured the foam is semi-rigid and will not age-deteriorate. FR Foam has excellent acoustic and thermal insulation values.

Typical yields: -

Can Size	Yield	Area*
500ml	26 litres	0.52 / m ²
750ml	40 litres	0.8 / m ²

* Typically for a 50mm depth of seal

Product Description

Material	Insulation	Integrity
Concrete to Concrete	*	240 mins
Concrete to Blockwork	*	240 mins
Blockwork to Timber	*	120 mins

Test Standards

Tested in accordance with the methodology and criteria described in:

- BS 476 part 20:1987

Installation Instructions

- 1 Ensure surfaces are firm and free of dust, loose particles and grease.
- 2 As Abesco FR Foam dries by moisture absorption, all surfaces should be moistened well with water before application of the foam.
- 3 Shake the can thoroughly 15 - 20 times. Attach the adapter to the can, taking care not to over-tighten or activate the valve during this process.
- 4 The can should be turned upside down with the adapter and valve pointing downwards for application of the foam.
- 5 The foam should be applied into gaps and openings from the bottom first, working up as each layer is allowed to part cure. Care must be taken not to insert excessive quantities of foam at one time as the rapid expansion will lead to overspill and unwanted post-expansion. Foam extrusion can be controlled accurately by varying the pressure or tilting the adapter. The foam will expand by 1.5 to 2.5 times.
- 6 Moisture is needed to ensure rapid and even curing of the foam and care must be taken to ensure surfaces are kept moist during application (a watering spray for plants is a good tool to use for this purpose). This is especially important for hot or dry climates.
- 7 Once the gap or opening is completely filled, excess foam can be removed by cutting with a small saw or knife to leave a neat finish.
- 8 As FR Foam is not highly resistant to mechanical damage, a solid protection should be applied over the cured foam such as a steel or timber face-plate.

Abesco FR Foam cans should not be stored horizontally at any time. FR Foam is also available in cans for use with a special applicator gun.

FR Foam is CFC free.

Abesco FR Foam is suitable as a non-fire rated standard fill-and-fix expanding foam.

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