



Abesco FP200 FR Expanding Foam

Technical Data Sheet

Product Description

Abesco FP200 FR Expanding Foam is a single pack Fire Rated polyurethane expanding foam which is designed to prevent the spread of fire and smoke from one compartment to another through gaps and voids where they penetrate fire rated walls or floors for up to 4 hours. FP200 FR Expanding Foam exhibits excellent adhesion to most common building surfaces and once cured the foam is semi-rigid and will not age-deteriorate. FP200 FR Expanding Foam has excellent acoustic and thermal insulation values.

FP200 FR Expanding Foam features:

Extremely versatile solution

CFC Free

Very easy to install and finish

Excellent adhesion to most building substrates

Unaffected by moisture or humidity when cured

Cures to provide a strong semi-rigid seal

Application

Abesco FP200 FR Expanding Foam is suitable for use in most buildings where a seal is required for through penetrations in fire rated floors and walls.

Abesco FP200 FR Expanding Foam provides permanent fire seals for cables, cable trays and non combustible pipes. It will also provide a permanent seal where cables, steel, copper or cast iron pipes pass through the same opening.

It has excellent adhesion to various surfaces like concrete, brick, wood, metal, aluminum and steel. It has no adhesion to polyethylene, silicone and teflon.

Abesco FR Foam is designed and tested as a Fire Rated Foam, however, it can also be used for non-fire rated applications where general gap filling is required.

Physical Properties

Application temperature:	min. 5°C (surfaces), 20°C-25°C (can)
Tack free time:	5 - 10 minute, depending on temp. and humidity
Hardening time:	5 - 12 hours, depending on temp. and humidity
Water absorption:	max. 2 % vol.
Temperature resistance:	-5°C to + 100°C
Tensile strength:	0,071 - 0,076 MPa
Elongation at break :	15 - 20 %
Flammability class:	B1 according to DIN 4102, part 1
Storage:	9 months (10°C to +20°C) Higher temperatures can shorten storage life. Can must be in vertical position.

Testing and Performance Data

Tested in Accordance with:

ASTM E814, UL1479 for up to 2 hours

BS 476 and BS EN 1366 for up to 4 hours



FILL VOID OR CAVITY MATERIALS
FOR USE IN THROUGH
PENETRATION FIRESTOP SYSTEMS
SEE UL DIRECTORY OF PRODUCTS
CERTIFIED FOR CANADA AND UL
FIRE RESISTANCE DIRECTORY
86JY

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Abesco Ltd, Abesco House
Laurencekirk Business Park
Laurencekirk
Scotland, UK
AB30 1EY

Phone: +44 (0) 1561 377766
Fax: +44 (0) 1561 378887
Email: technical@abesco.net
Website: http://www.abesco.net



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Installation Method

Abesco FP200 FR Expanding Foam is very easy to install with only basic hand tools.

1. Ensure surfaces are firm and free from 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. The best application temperature is 20°C - 25°C
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 applied volume of foam will expand 2-3 times its original volume, therefore the foam should be inserted into a maximum 50% of the volume to be filled.
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. After 12 hours, hardened foam can be cut away with a small saw or knife to leave a neat finish.

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