

## FP200

### Fire Rated Expanding Foam



#### product description

Abesco FP200 FR Expanding Foam is a single pack fire rated polyurethane expanding foam, and is designed to prevent the spread of fire and smoke from one compartment to another through construction joints, gaps and voids or openings for service penetrations in fire rated walls and floors, and provides up to 4 hours fire resistance.

Abesco FP200 FR Expanding Foam has excellent adhesion properties to most common building surfaces and when cured provides a strong semi-rigid fire rated seal. Once fully expanded and cured Abesco FP200 FR Expanding Foam is unaffected by moisture and does not degrade in high humidity conditions. Abesco FP200 FR Expanding Foam is an extremely versatile product and as such is well suited for use in a wide range of other applications.

#### testing and performance

Tested in accordance with the methodology and criteria

described in:

**BS 476-20**

**EN 1366-3**

**ASTM E814 (UL 1479)**

**ASTM E-84 (Flame 10, Smoke 35)**

**ASTM E-662**

**ASTM E-162**

UL Classified 1 and 2 Hour rating

- Approved worldwide and recognised by independent authorities
- Up to 4 hours fire resistance
- Suitable for most substrates
- Expands to fill voids & gaps
- Easy to install
- Extremely cost effective
- Unaffected by moisture or humidity
- CFC Free
- Suitable for Non-fire rated gap filling



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

technical datasheet



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#### installation methods

1. Ensure surfaces are firm and free of dust, loose particles and grease.
2. As Abesco FP200 FR Expanding 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 68 - 77°F (20 - 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 side to side and 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. Avoid emptying the entire can onto a enclosed location without moving the nozzle to obtain even filling, this will help with even curing and eliminate liquid or un-foamed voids.
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 or sawn away with a small saw or knife to leave a neat finish. Painting or staining with acrylic or latex based paints or stains can be done.

#### physical properties

**Application temperature:** min 5°C (41°F) (Surfaces), 20°C-25°C (68°F-77°F)(Can)  
**Tack free time:** 5-10 minutes, depending on temp. and humidity.  
**Cure time:** 20-25 minutes at 38mm (1.5") dia. depending on temperature and humidity.  
**Hardening time:** 5-12 hours, depending on temp. and humidity.  
**Specific Gravity:** 22-26 kg/m<sup>3</sup>  
**Water absorption:** max. 2% vol.  
**Temperature resistance:** - 40°C to +90°C(-40 to +194°F)  
**Tensile strength:** 0,071 - 0,076 MPa  
**Elongation at break:** 15 - 20%  
**Free expansion:** 120%  
**Flame and smoke index:** 10 & 35, Class A Rating  
**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.  
**VOC:** 2% per Council Directive 1999/13/EC or 23.6 g/l  
**STC:** 38  
**Dielectric Constant:** (relative static permittivity) 1.2  
**R:** 7/inch (2.54 cm)

#### 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 FP200 FR Expanding 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.

#### ordering information

Code	Description	Colour	Unit	Case	Pallet
20410	FP200 10oz (283g) Can FR Expanding Foam	Pink	10oz (283g) Can	12	2100 Cans
20424	FP200 24oz (680g) Can FR Expanding Foam	Pink	24oz (680g) Can	12	816 Cans



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