Abesco FP200 FR Expanding Foam

Technical Data Sheet

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 gaps and voids through fire rated walls or floors. 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.

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

Physical Properties

Application temperature:	**min.+41°F (surfaces), 68°F-77°F (can)**
Track free time:	**5 - 10 minute, depending on temp. and humidity**
Cut time:	**15 - 20 minute (1.2" Dia.), depending on temp. and humidity**
Hardening time:	**5 - 12 hours, depending on temp. and humidity**
Water absorption:	**max. 2 % vol.**
Temperature resistance:	**-40 to + 210°F**
Tensile strength:	**0,071 - 0,076 MPa**
Elongation at break:	**15 - 20 %**
Flammability class:	**B1 according to DIN 4102, part 1**
Storage:	**9 months (+50°F to +68°F) Higher temperatures can shorten storage life. Must be in vertical position.**
VOC:	**2% per Council Directive 1999/13/EC**

Specifications

All installations shall be in strict accordance with manufacturers printed instructions. The Foam shall be a single pack fire rated polyurethane expanding foam, and shall be tested in accordance with ASTM E814 (UL1479) and classified by Underwriters Laboratories Inc.

Suitablility for a particular application should be determined prior to installation.

Testing and Performance Data

Tested in Accordance with ASTM E814, UL1479

Also tested to BS 476 part 20

UL Classified 1 and 2 Hour rating

Please visit the UL website for details on our current systems

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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Installation Methods

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

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. The best application temperature is 68 - 77°F

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 or sawed away with a small saw or knife to leave a neat finish.

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