Sealmaster

of Cambridge

Sealmaster FireFoam

Part of the Dixon
International Group Ltd
www.dig.co.uk

Introduction

Sealmaster FireFoam took two years of design and development, field evaluation and independent testing went into making of this unique dry-foam fire resisting joint filler. FireFoam is a more effective fire seal than its competitors. Less material is required, so costs are kept to a minimum. Add to that the reduced cost achieved by simple, quick, installation, and FireFoam is the most cost-effective fire resistant gap filling system on the market.

The Product

Sealmaster Intumescent FireFoam is a 18mm thick fire retardant open-cell polyurethane flexible fmoam, coated on both sides with 2mm thick expandable graphite intumescent sealant, containing special binders which maintain complete flexibility. At the designated temperature, the intumescent coating begins to expand on the fire side of the joint. During this reaction, the fire resistant foam gradually degrades and is replaced by the expanding mass of intumescent graphite. Thus fire is prevented from penetrating rapidly into the joint,

Application

FireFoam is compressible, it can accomodate vibration or movement, and so can be used as a filler for movement joints. This product is suitable for interior or exterior projects.

Firefoam is recommended for use in structural joints around service penetratios through fire resisting walls and floors, in noise sensitive environments and in thermal applications: for example:
- Filling fire rated expansion joints in fairface brick and blockwork walls;
- Filling expansion joints incorporated in compartment floors;
- Filling gaps in curtain walling adjoining compartment walls, floors and roofs:
- Sealing around pipework, ductwork and cable passing through fire resisting walls and floors.

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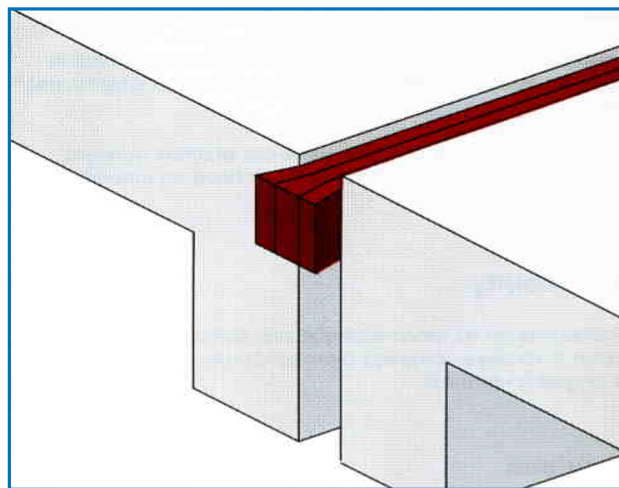
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Technical Information

Size: Supplied in 1m long strips with thicknesses as specificed by the customer up to the maximum gap size and with depths up to 105mm.

Compressibility: Approximately 9.6 KN/m for 40% compression.

Fire resistant rating: Independant fire resistance tests to BS 476 have proved FireFoam's integrity in a variety of situations for periods up to four hours. Report data is available on request.

Expansion on exposure to fire: A 22mm thickness of FireFoam will expand to 50-55mm.

Durability: FireFoam is extremely durable, and is able to withstand the riguours of the building site. Tests show that many years after installation, FireFoam will still be ready to activate in crisis.

Moisture resistance: FireFoam is unaffected by atmospheric carbon dioxide or moisture. FireFoam activates reliably at the designated temperature.

Other properties: FireFoam has excellent thermal and acoustic insulation properties.

Safety: FireFoam is odourless, non-toxic and is asbestos free. No special protective clothing is required when installing.

Storage: Store in a cool dry place out of direct sunlight. Under these conditions, FireFoam will have an unlimited storage life.

Performance of Firefoam in any structural substrate

Gap width	Fire resistance				
	1hr	1½ hrs	2hrs	3hrs	4hrs
	Depth of Firefoam fill required				
10	25	25	25	35	40
20	25	25	30	40	50
30	25	25	30	40	50
40	30	30	35	45	55
50	35	35	45	60	75
60	35	35	45	65	90
70	40	40	50	75	105
80	40	40	50	85	105
90	45	45	55	85	105
100	50	50	60	85	105

Linear dimensions in mm

Fitting Instructions

FireFoam is installed by compressing the pre-cut strips by hands, and inserting them around the penetration or into the the joint until the void is filled. The foam is held into place by eans of its own compression, and so adhesives are not required.

FireFoam is resistant to moisture and can be installed without waiting for contact surfaces to be completely dry. Special preparation is not usually necessary, athought it is recommended that Seamaster Silicone Sealant be used to overseal. This will prevent the passage of cold smoke and will enhance the aesthetic appearance of the fire proofed joint.

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