

Expanfill*



CONSTRUCTION CHEMISTRY

Bitumen impregnated fiberboard

Uses

Expanfill* is a compressible, non-extruding, bitumen impregnated fiber board expansion joint filler suitable for forming joints in in-situ or precast concrete components, and to protect waterproof membranes against physical or mechanical damage.

Forming structural expansion and separation joints in:

- Concrete pavements and floors
- Roads, ramps and runways
- Pedestrian areas
- Concrete retaining walls and bridges
- Concrete basement structures and subways

Advantages

- Easy to handle, cut and tamp
- Resilient
- Will not extrude under compression
- High recovery
- Low distortion

Standards compliance

Expanfill* has been independently tested and complies with DTp Specification for Highway Works, Dec 1991 series 1000 clause 1015.

Description

Expanfill* is a compressible joint filler and protection board manufactured from bitumen impregnated wood fibers. It is supplied in sheet form and is used to form and fill expansion joints in in-site and precast concrete construction.

Specification

The expansion joint filler as detailed shall be Expanfill* supplied by Expanchem

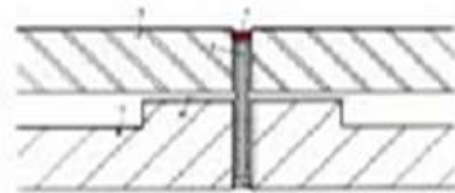
The expansion joint filler will have been independently tested and exceed the requirements of the UK Department of Transport Specification for Highway Works series 1000, clause 1015.

Design criteria

Typical sealed expansion joints in roads, industrial floors, runways and other trafficked surfaces.

An example of a sealed substructure expansion joint is shown below.

- 1 Expanseal* 600
- 2 Bond breaking tape
- 3 Expanfill*
- 4 Recessed seal



Properties

Form	: Compressible sheet
Solids content	: 100%
Recovery	: > 85% (ASTM D1751)
Weathering test	: No disintegration (DTp CI 1015)
Extrusion	: < 1.2 mm (ASTM D1751)
Distortion	: < 0.7 mm (ASTM D944)
Brittleness	: Does not crack or shatter (ASTM D944)
Water absorption	: < 16% By Volume (ASTM D545)

The above properties were determined by independent tests on 25mm thick samples.

Instructions for use

Slabs

Where used to form an expansion joint in in-situ concrete, Expanfill* shall be placed against the shuttering on the concreting side before the pour begins. Copper nails may be used to prevent displacement in joints in suspended slabs.

Alternatively, Expanfill* may be bonded to the existing slab or previous pour using a suitable contact adhesive. Care should be taken not to contaminate surfaces of the sealing slot with the adhesive.



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Joint sealing

A joint sealing slot can be formed by placing a removable timber former on top of the Expanfill*. Alternatively, Expanfill* can be installed to the full depth of the slab and cut back to the required depth subsequently using a power brush machine. This latter method is generally used for slabs which cannot be cleaned and sealed until all building construction has finished. Expanfill* should be tamped down to ensure that it fills the joint completely and provides continuous support for the joint sealant.

Technical support

Expanchem Fospak offers a comprehensive technical support service to specifiers, end users and contractors. It is also able to offer on-site technical assistance, an AutoCAD facility and dedicated specification assistance in locations all over the world.

Estimating

Supply

Expanfill* : 1.22 m x 2.20 m

Nominal sheet

Thickness : 12 mm 19 mm 25 mm

Storage

As with all organic materials there is a very slight risk of spontaneous combustion if stored long term in wet conditions. Store under cover, in a dry, flat, clean and sound conditions.

Precautions

Health and safety

There are no health hazards associated with Expanfill* in normal use.

Fire

Expanfill* is combustible and will catch fire if exposed to flame or other sources of ignition.

*Denotes the trademark registered.

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