

Expandafoam

Closed-cell polyethylene joint filler and backup strips

Uses

Expandafoam is a closed-cell polyethylene joint filler for use as an expansion joint filler in brick and blockwork, isolation joints and hinge joints where a readily compressible low load transfer joint filler is required.

Sheets and cord sections are also available. These are used as backup strips for elastomeric sealants.

- Backup/bond breaker strip to support sealants
- Bridge decks, abutments, pier hinge joints
- Brick and blockwork in building superstructures

Advantages

- Readily compressible
- Low load transfer
- Excellent recovery after compression
- Non-absorbent
- Rot proof
- CFC free

Standards compliance

BS 5628 Part 3 "Use of Masonry" para. 20.4.

DTp Specification for Highway Works, Dec 1991 series 1000. Clause 1015.

Description

Expandafoam is a flexible, readily compressible, closed-cell polyethylene joint filler supplied in sheet form and as circular section cords. For details on the circular section cords, please refer to separate Expancell data sheet.

Technical support

Fosroc offers comprehensive technical support, including help at the design stage, application advice and on the site problem solving. Specifiers and contractors are encouraged to contact our trained staff for answers to their questions.

For further information please contact us at your nearest Fosroc office.

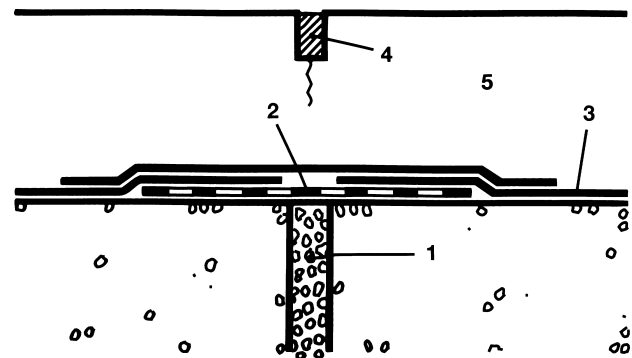
Formed from the merger of Expandite and Fosroc

Design criteria

Roads and bridges

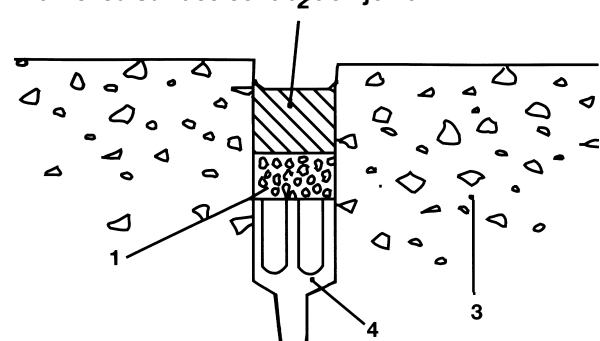
Expandafoam is used as an expansion joint filler in bridge decks and abutments, and as a backup strip in carriageway buried joints, examples of which are shown below.

Buried joint in bridge deck



- 1 Expandafoam
- 2 Expoband Plus bonded to structural concrete
- 3 Famguard waterproof membrane
- 4 Pliastic A2 joint sealant
- 5 Asphalt surfacing

Trafficked surface contraction joint



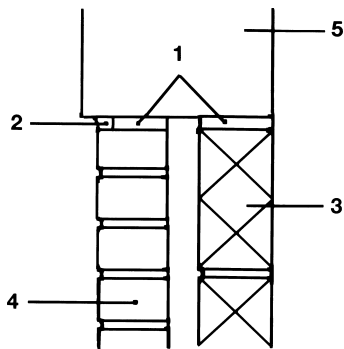
- 1 Expandafoam
- 2 Colpor 200 joint sealant
- 3 Concrete road slab
- 4 Crack inducer

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External walling and cladding

Expandafoam is used as a readily compressible, low load transfer joint filler in joints surrounding brick infill panel walling. It is also used as a gap filler, backup strip and bond breaker to fill open joints in panel construction to provide support for joint sealants.

Compression joint in brick infill panel



- 1 Expandafoam
- 2 Thioflex 600 joint sealant
- 3 Blockwork
- 4 Brick panel external
- 5 Concrete beam

BS 5628 pt3

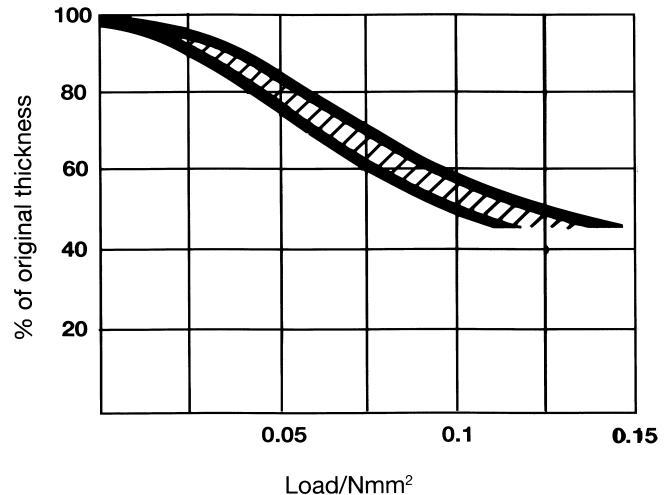
For movement in clay brickwork, a joint filler with a low compression load is required to reduce stress buildup. Expandafoam complies with these requirements. Fosroc also markets a laminated polyethylene joint filler called 'Hydrocell'. Lamination makes Hydrocell extremely rigid whilst retaining its low load compressibility. This rigidity enables easy positioning, especially in the vertical plane. Please refer to separate Hydrocell data sheet for more details.

Properties

Technical data - (sheets)

Form:	Cross-linked, compressible, closed-cell sheet
Weathering test:	No disintegration
Recovery:	Greater than 70%
Water absorption:	Negligible by volume (4 weeks)
Effects of fire:	Being a thermoplastic material, Expandafoam will melt. It is combustible but rate of flame spread will be reduced when confined within a joint.
Nominal densities:	33 kg/m ³

Load/compression curve



Specification clauses

The joint filler/backup strips as detailed shall be Expandafoam supplied by Fosroc. Whether in sheet form or in strip form, Expandafoam shall be installed strictly in accordance with the current Fosroc technical data sheet.

Application instructions

Joint sealing slots

When used as an expansion or isolation joint filler in brickwork, Expandafoam should be positioned to provide for a surface sealing slot of the required dimensions ensuring that the sealing slot is free from mortar droppings or slurry bridging.

Expandafoam sheets may be fixed into position using a suitable adhesive such as Supastik wall panel or contact adhesive. Care should be taken not to contaminate the surfaces of the sealing slot with adhesive.

Where Expandafoam is used as the joint filler no additional bond breaker is necessary.

Used as a backup/bond breaker strip Expandafoam serves both to regulate the depth of the sealing slot required and to ensure that the movement of the joint sealant is not restricted by adhesion to the base of the sealing cavity.

The size of the backup strip should be approximately 20% greater than the joint width, and depressed sufficiently to provide the required sealing slot dimensions. Circular cord sections provide a convex face giving an optimum seal configuration, they also overcome any problem of twisting which can occur with square or rectangular sections.

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Limitations

Being made from a thermoplastic material, Expandafoam will burn and therefore cannot be used in conjunction with hot applied sealants.

Estimating

Sheet size:	1.0 m x 2.0 m
Sheet thickness:	10, 20, 25 and 50 mm

Note: In accordance with Commercial or Health & Safety requirements packaging detail may alter. Please contact your local Fosroc office for detail.

Storage

There are no special storage requirements for this product, however, it should be stored in the dry and not left exposed to the elements for extended periods, especially in hot climates.

Precautions

There are no health hazards associated with Expandafoam in normal use.

Additional information

As well as joint sealants and ancillary products, Fosroc also manufactures a wide range of complementary products which includes waterstops, waterproofing membranes, grouts, anchors and specialised flooring materials. In addition, a wide range of products specifically designed for the repair and refurbishment of damaged reinforced concrete are available. This includes hand-placed and spray grade repair mortars, fluid micro-concretes, chemical-resistant epoxy mortars and a comprehensive package of protective coatings.



Expandaf foam

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