

Fosroc® Expandafoam® Closed Cell



constructive solutions

Medium density, closed cell polyethylene backing rod

Uses

As a bond breaker/joint profile former to support elastomeric sealants in expansion joints between all common building materials

Roads, bridges, roof joints

Expandafoam Closed Cell is used as a backing strip for non traffic-bearing expansion joints.

External walling and cladding

Expandafoam Closed Cell is used as a backing strip for expansion joints, as a gap filler for any open joints prior to application of any cold applied joint sealant and as a readily compressible, low load transfer joint filler in joints surrounding brick infill panel walling

Glazing

Expandafoam Closed Cell is used as a gap filler and backing strip to support perimeter sealing around frames and sub-frames

Internal finishes

Expandafoam Closed Cell is used as a gap filler and backing strip to provide support to sealants in partition joints and around work tops, baths and other internal finishes and fittings.

Advantages

- Compatible with all elastomeric sealants
- Readily compressible
- Low load transfer
- Non gassing
- No water absorption
- CFC free

Description

Expandafoam Closed Cell is a closed cell polyethylene foam rod supplied in circular section cords of varying diameters. Expandafoam Closed Cell is primarily used in expansion joints but is also suitable for use in any joint system requiring a readily compressible joint filler containing no migratory chemicals which could adversely affect joint sealants.

Design Criteria

Expandafoam Closed Cell should always be installed into a joint under compression to ensure that applying the joint sealant will not displace the foam. This is achieved by compressing Expandafoam Closed Cell by 25% when installing into a joint (or by using foam 1/3 larger than the joint size). As a guide, use sizes noted on the following chart:

Joint width	Expandafoam Closed Cell diameter
4 to 5 mm	6 mm
6 to 8 mm	10 mm
9 to 11 mm	13 mm
12 to 13 mm	15 mm
14 to 17 mm	20 mm
18 to 20 mm	25 mm
21 to 27 mm	30 mm
28 to 35 mm	40 mm
36 to 45 mm	50 mm

As a guide, the sealant depth must be a minimum of 6 mm at the thinnest section of the sealant bead (above the centre of the Expandafoam), with a minimum bonding depth at the joint face of 6 mm on smooth glass and metal surfaces, and 12 mm on porous or rough surfaces. For larger joints, the depth of the joint face should normally be half the joint width. For any systems with dimensions not meeting these requirements contact Fosroc.

Properties

Data quoted are typical for this product, but do not constitute a specification.

Form:	Compressible, closed cell polyethylene foam rod
Colour:	White
Weathering test:	No disintegration
Water absorption:	0.01ml / cm ³
Service temperature range:	Minus 80°C to 100°C
Nominal density:	25 kg/m ³

Application Instructions

Application

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

When used as a backing strip, Expandafoam Closed Cell is simply push fitted back into the joint. The cord diameter used should be 20 to 30% greater than the joint width. The circular section of Expandafoam Closed Cell provides a convex face to ensure that applied elastomeric sealants are given optimum shape for minimum strain as the joint moves. Do not use sharp objects when fitting Expandafoam Closed Cell, as any damage to joint backing may allow air voids to be formed in sealant.

Note: Correct fitting will result in an oval cross section, with depth of Expandafoam Closed Cell being greater than the nominal joint width, so care must be taken to ensure that correct sealant dimensions are maintained after fitting Expandafoam Closed Cell.

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Limitations

Expandafoam Closed Cell, as with other foam backing rods, is not suitable for use with hot pour sealants.

Applications where joint backing must provide continual support for the joint sealant e.g. water retaining structures or floor joints subject to traffic, Stiffjoint, a semi rigid filler should be used.

Expandafoam Closed Cell is not resistant to long term UV exposure.

Supply

Expandafoam Closed Cell is available in the following sizes and roll lengths:

Size	Material code
6mm x 250m roll	FC700972-UNIT
10mm x 250m roll	FC700973-UNIT
13mm x 100m roll	FC700974-UNIT
15mm x 100m roll	FC700975-UNIT
20mm x 60m roll	FC700976-UNIT
25mm x 50m roll	FC700977-UNIT
30mm x 50m roll	FC700978-UNIT
40mm x 2m strip	FC700979-UNIT
50mm x 2m strip	FC700980-UNIT

Other sizes may be available upon application.

Important notice

A Safety Data Sheet (SDS) is available from the Fosroc website. Read the SDS and TDS carefully prior to use as application or performance data may change from time to time. In emergency, contact any Poisons Information Centre (phone 13 11 26 within Australia) or a doctor for advice.

Product disclaimer

This Technical Data Sheet (TDS) summarises our best knowledge of the product, including how to use and apply the product based on the information available at the time. You should read this TDS carefully and consider the information in the context of how the product will be used, including in conjunction with any other product and the type of surfaces to, and the manner in which, the product will be applied. Our responsibility for products sold is subject to our standard terms and conditions of sale. Parchem does not accept any liability either directly or indirectly for any losses suffered in connection with the use or application of the product whether or not in accordance with any advice, specification, recommendation or information given by it.