

# Fosroc Expancell

## Closed cell polyethylene joint sealant back-up cord

### Uses

Expancell is a closed cell polyethylene foam supplied in circular cord lengths for use as a back up material for joint sealing applications. Expancell is available in a variety of sizes ranging from 6mm to 50mm in diameter suitable for the most commonly encountered joint dimensions.

### Advantages

- Economical
- Easy to install
- Readily compressible
- Rot proof and non-absorbent
- Provides bond breaker and minimum strain shape for joint sealants
- Provides a firm backing for sealant tooling

### Description

Expancell polyethylene foam back-up cords have the ability to perform several functions. They enable the correct width to depth ratio of the sealing slot to be maintained and provide a firm backing for the sealant to be tooled. This will precipitate wetting of the sides of the joint during the sealant application thus facilitating good adhesion.

The use of Expancell will also act as a bond breaker at the base of the joint thus preventing three sided adhesion and the accompanying additional stress during joint movement.

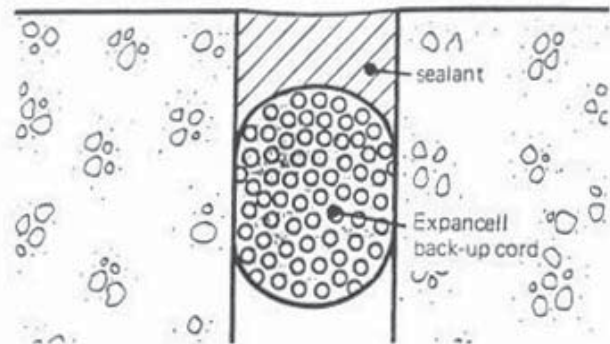
Non-absorbent and rot proof, the functional performance of Expancell is not impaired by climatic extremes.

### Properties

<b>Form</b>	: Compressible closed cell foam circular cords
<b>Durability</b>	: Excellent
<b>Dimensional stability</b>	: Excellent
<b>Water absorption</b>	: Negligible
<b>Colour</b>	: Grey
<b>Temperature stability</b>	: - 40°C to + 60°C

### Design criteria

Typical sealed expansion joint detail showing the installed Expancell back-up cord.



### Instructions for use

Expancell cords are normally installed by push fitting into clean, dry, dust free joints. If necessary a blunt tool can be used to assist in the insertion, however care must be exercised in avoiding damage to the skin of the Expancell.

The diameter of the cord should be approximately 20% to 25% greater than the width of the joint, this will ensure that the cord is tightly held in position therefore greatly assisting in maintaining the required depth to width ratio. Additionally the aesthetic effect of the finished sealant will be enhanced when tooling / finishing from a firm base.

When installed, the circular section of the Expancell cord provides a convex face giving the optimum minimum strain shape for elastomeric sealants.

### Technical support

Fosroc 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.

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## Estimating

Expancell cords are available in pre-packed cartons. The lengths of each cord diameter contained per carton are identified as follows:

Cord diameter (mm)	Linear metres / carton
10	1000*
15	600*
20	400*
25	400*
30	2
40	2

**Note:** All Items marked \* are also available in 100m packs.

## Storage

Store under cover in a dry location away from heat sources.

## Precautions

### Health and safety

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

### Fire

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

## Additional Information

Fosroc manufactures a wide range of complementary products which include :

- waterproofing membranes & waterstops
- joint sealants & filler boards
- cementitious & epoxy grouts
- specialised flooring materials

Fosroc additionally offers a comprehensive package of products specifically designed for the repair and refurbishment of damaged concrete. Fosroc's 'Systematic Approach' to concrete repair features the following :

- hand-placed repair mortars
- spray grade repair mortars
- fluid micro-concretes
- chemically resistant epoxy mortars
- anti-carbonation/anti-chloride protective coatings
- chemical and abrasion resistant coatings

For further information on any of the above, please consult your local Fosroc office - as below.

\* Denotes the trademark of Fosroc International Limited

† See separate data sheet



## Important note

Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard Conditions for the Supply of Goods and Service. **All Fosroc datasheets are updated on a regular basis. It is the user's responsibility to obtain the latest version.**

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