

Fosroc® Hydrocell™

Non-absorbent, semi-rigid, polyethylene joint filler

Uses

Hydrocell is used in forming expansion joints in concrete, brickwork and blockwork and in the construction of water retaining and water excluding structures.

- Brickwork
- Deck slabs
- Basement structures and subways
- Retaining walls
- Raw and potable water reservoirs
- Sewage treatment works
- Irrigation channels and culverts

Hydrocell is also an ideal joint filler support for joint sealants in applications such as concrete roads, bridges and other heavy frequent traffic environments.

Advantages

- Non-absorbent
- Rot proof
- Non-tainting
- Resilient
- Bitumen free
- Heat resistant in applications up to 80°C
- Complies to AS 4020:2018 - suitable for use in drinking water

Properties

Form:	Semi-rigid, closed-cell, polyethylene foam sheet
Density:	110kg ± 5 kg per m ³
Water absorption:	Less than 2% after 28 days
Load required to compress 50%:	420 Kpa (MR610 / T1150)
Recovery:	>90% (T1150)
Extrusion:	0.5 mm (MR610 / T1150)
Accelerated Weathering:	Excellent / no degradation (Test MR610 / T1150)
Resistance to bacteriological attack:	Excellent
Chemical resistance -	Immersion for 7 Days
Hydrochloric acid 10%:	No reaction
Caustic soda 10%:	No reaction
Acetone:	No reaction
Premium motor fuel:	No reaction, slight swelling
Diesel fuel:	No reaction, slight swelling

Standards Compliance

Hydrocell complies to AS 4020-2018 at an exposure level of 15,000mm² per litre; AWQC Report 320286.

Copies of the report are available on the Fosroc website.

Meets the performance requirements of TfNSW Specification 3204 - Preformed joint fillers for concrete road pavements and structures.

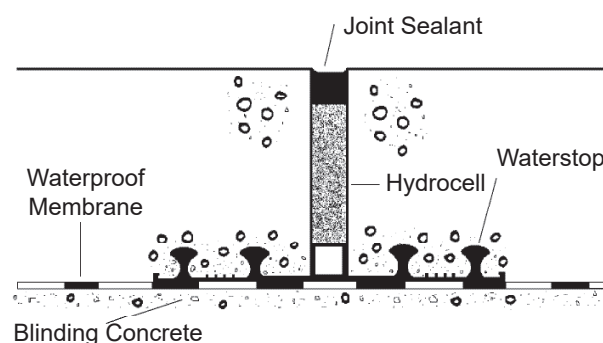
Description

Hydrocell is a semi-rigid, UV resistant, cross-linked, non-absorbent, closed-cell polyethylene sheet material.

Hydrocell is non-tainting and rot proof, therefore, suitable for use in conjunction with suitable joint sealants in structures for the storage of potable water.

Design Criteria

Example of a sealed expansion joint



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Application Instructions

Joint sealing slots

When forming expansion joints with Hydrocell in in-situ concrete, it can be supplied pre-cut with a “zip top” to site requirements or joint sealing slots can be readily formed in the following manner. Before installing, simply cut off a strip to the required depth then pin the strip back onto the main filler using small nails. Then install the filler flush with the finished surface.

Prior to sealing, the top strip can then be pulled easily from the joint to provide an uncontaminated sealing slot ready for preparation and sealing. As elastomeric sealants will not bond to Hydrocell the additional need for bond breaker strips is eliminated.

Suspended Slabs

When installing Hydrocell in expansion joints between suspended slabs, partly projecting copper nails or daubs of adhesive may be used to help prevent displacement.

Supply

Hydrocell is supplied in the following sheet sizes and can be easily cut to the required size with a sharp knife or fine saw:

Sheet size:	2.4m long x a 1.2m wide		Min. Order Qty.	Lead time (days)
Sheet thickness:	10mm	FC701000-UNIT		
	15mm	FC701010-UNIT		
	20mm	FC701015-UNIT		
Cut strips:				
	1.5m x 100mm x 10mm	FC720975-UNIT		
	1.5m x 125mm x 10mm	FC700870-UNIT		
	2.4m x 50mm x 10mm	FC701045-UNIT		
	2.4m x 75mm x 10mm	FC701050-UNIT		
	2.4m x 100mm x 10mm	FC720980-UNIT		
	2.4m x 150mm x 10mm	FC700995-UNIT		
	2.4m x 200mm x 10mm	FC701030-UNIT		
	1.4 x 100mm x 10mm MTO	FC700850-UNIT	360	14 - 21
	1.5m x 75mm x 10mm MTO	FC700920-UNIT	960	14 - 21
	2.4m x 250mm x 10mm MTO	FC701035-UNIT	20	14 - 21
	2.4m x 300mm x 10mm MTO	FC701040-UNIT	20	14 - 21

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.



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