

High expansion butyl bentonite based hydrophilic waterstop

Uses

Superswell 47B is an economical product for sealing less critical In-situ joints that must be water-tight.

Superswell 47B is recommended for use in non-movement joints eg horizontal construction joints between floor slabs and cast in situ walls such as lift overrun pits, retaining walls and similar.

Advantages

- Requires no site welding
- Easy to handle
- Conforms easily to irregular surfaces
- Does not require split-forming or splicing
- Superswell 47B is non-toxic and requires no special handling instructions

Description

Superswell 47B is a high expansion Butyl Bentonite based hydrophilic waterstop suitable for non-movement construction joints where it is fully contained within the joint.

Its volumetric expansion (1.6 times) occurs in all directions and therefore containment is critical. When fully immersed in water, swelling commences within 2 days and reaches full expansion in approximately 10 days, thus placement and concrete cover time is critical in inclement weather conditions.

Design Criteria

For the best results it is recommended that a relatively smooth surface be provided along the line of the Superswell 47B strip however a moderate amount of irregularity can be accommodated.

Always ensure that there is a minimum of 50 mm cover from the edge of the concrete to the face of the Superswell 47B.

Properties

Form:	Pliable mastic strip
Colour:	Black
Expansion (total unrestrained) 28 days exposure in water:	1.6 times original volume
Hydrostatic head pressure:	344.5 kPa (34m head (depending on joint configuration))
Specific gravity ASTM D-71:	1.40 (±5)
Volatile content ASTM D-6:	1% max
Penetration cone ASTM C217:	40 ±5
Service temperature range:	- 34°C to 82°C

Application Instructions

Carefully brush off all loose dust and dirt and apply a coat of Emer-Proof Self Adhesive Primer to the area where the Superswell 47B is to be placed. Allow the primer to become tacky (approx.15 minutes @ 25°C).

Using moderate hand pressure, press a continuous bead of Superswell 47B firmly into position. Check to be certain that the sealant has bonded to the primed area.

Peel the protective backing from the exposed side of the Superswell 47B. Knead the overlapped ends together to form a continuous, uninterrupted gasket.

Placement of concrete can proceed as soon as sufficient bond of the Superswell 47B to the concrete has occurred. Care should be taken not to displace the Superswell 47B during this process.

Limitations

Contaminants in water or immersion in sea water can affect the amount of swelling achieved in site conditions.

Estimating

Profile Sizes

25 mm x 19 mm (Rectangular Shape)
6 x 5 metre rolls per box
Box weight: 22 kg

12 mm x 12 mm x 19 mm (Trapezoidal Shape)
8 x 7.5 metre rolls per box
Box weight: 17 kg

Storage

Superswell 47B must be stored in cool dry places. Any left over from site usage should be immediately returned to the original box and stored as above.

Shelf Life

12 months when stored in condition described above.

Superswell 47B

Important notice

A Safety Data Sheet (SDS) and Technical Data Sheet (TDS) are available from the Parchem website or upon request from the nearest Parchem sales office. 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.

Corkjoint



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