

HYPERSEAL BR SERIES

Hydrophilic Butyl Rubber Technical Data Sheet

BR-2510N



Description

Hyperseal BR is a high performance, hydrophilic butyl rubber waterstop, which swells to form a long-lasting water-tight compression seal. The swelling action is the result between water and hydrophilic groups which are part of the Hyperseal BR molecular structure.

Uses

Hyperseal BR is suitable for static or low movement construction joints, cold-joints and penetrations where there is any concern regarding water penetration.

Typical Areas of Application

- Concrete foundations and walls
- Concrete slabs on grade
- Elevated slabs and ramps
- Elevator and equipment pits
- Precast construction
- Swimming pools and water features
- Water towers, reservoirs and water storage tanks
- Tunnels, pipes and underground vaults
- Marine environments
- Suitable for most shotcrete and pile applications

Advantages

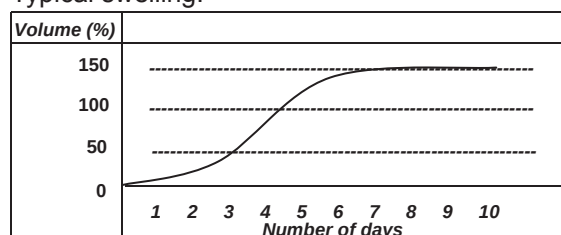
- Long lasting durability
- Easy to install, requires no welding or complex detailing
- Stainless steel net insert for strength
- Self-adhesive backing
- Light-weight for easy handling
- Slow-expansion coating to prevent damage to freshly placed concrete
- Conforms to surfaces with a moderate amount of irregularity
- Swelling properties unaffected by long term wet/dry cycles
- Sustains an effective seal in submerged environments
- Suitable with salt water and common ground contaminants



Physical Properties

Form:	Pliable rubber strip
Colour:	Grey
Expansion volume:	> 150%
Hydrostatic resistance:	> 500kPa (50m head)
Specific gravity ASTM D-71:	1.20
Accelerated aging flow resistance:	No abnormality Mechanical oven 24hrs @ 70°C
Cold resistance test:	No abnormality
Packaging:	BR-2510N - 25mm x 10mm x 5m roll (6 rolls per box) N - Stainless steel net insertion
Accessories:	Hyperseal XSeal sealant

Typical swelling:



Design Criteria

Hyperseal BR can be installed to either a channel formed in the concrete or directly onto the concrete surface.

For quick installation, it is recommended that a relatively smooth surface be provided along the path of the Hyperseal BR; however a moderate amount of irregularity can be accommodated.

Always ensure that there is a minimum of 50mm cover from the edge of the concrete to the face of the Hyperseal BR to prevent concrete blow-outs.

Where possible, situate the Hyperseal BR between two rows of reinforcing steel as this will assist in preventing product displacement.

Application Instructions

1. Prep work - carefully brush off all loose dirt, dust and debris from joint surface.
2. Place Hyperseal BR in approximate position.
3. Remove protective backing from the adhesive side in small sections, and use moderate hand pressure to press a continuous roll of Hyperseal BR firmly onto the surface.
4. Ends can be either butt-joined or kneaded together to form a continuous, uninterrupted seal.
5. Check to be certain the Hyperseal BR has adhered to the area fully.
6. If normal bonding properties are hindered, utilise a suitable contact adhesive or concrete nails as required.
7. For extremely rough surfaces, use Hyperseal XSeal to glue down the Hyperseal BR and fill up all voids beneath the waterstop.
8. Placement of concrete can proceed as soon as sufficient bond of the Hyperseal BR to the concrete has occurred. Care should be taken not to displace the Hyperseal BR during this process.



Safety

Before using or handling materials, please read all relevant Material Safety Data Sheets (MSDS).

Storage

Hyperseal BR can be stored unopened for 12 months in a cool, dry place below 25°C. Any leftover material from site usage should be immediately returned to the original box and stored as outlined.

Limitations

- Do not leave product exposed to inclement weather conditions which could cause the material to expand prematurely. If this occurs, allow the product to fully dry out either naturally or by using a hot air gun before covering with concrete.
- Do not utilise product in areas affected by consistently high temperatures, such as roof slabs.

Warranty

The seller warrants that at the time of shipment its products are free from manufacturing defects and, when applied in accordance with the current specification and application instructions, will perform as so stated in its product literature. Project specific warranties are available on request. Please consult your nearest distributor for further information.

Product Disclaimer

The technical details, recommendations and other information contained in this data sheet are given in good faith and represent the best of our knowledge and experience at the time of printing. It is your responsibility to ensure that our products are used and handled correctly and in accordance with any applicable Australian Standard, our instructions and recommendations are only for the uses they are intended. Hyperseal Waterstops does not accept any liability either directly or indirectly for any losses suffered in connection with the use or application of the product. We also reserve the right to update information without prior notice to reflect ongoing research and development programs. The supply of our products and services is also subject to certain terms, warranties and exclusions, which may have already been disclosed to you in prior dealings or are otherwise available to you on request. You should make yourself familiar with any relevant items.

Technical Support

For any additional information not expressed in this document, please contact us via the details below.