

# Polyprufe® BSW

HDPE Blind-Side Waterproofing Membrane



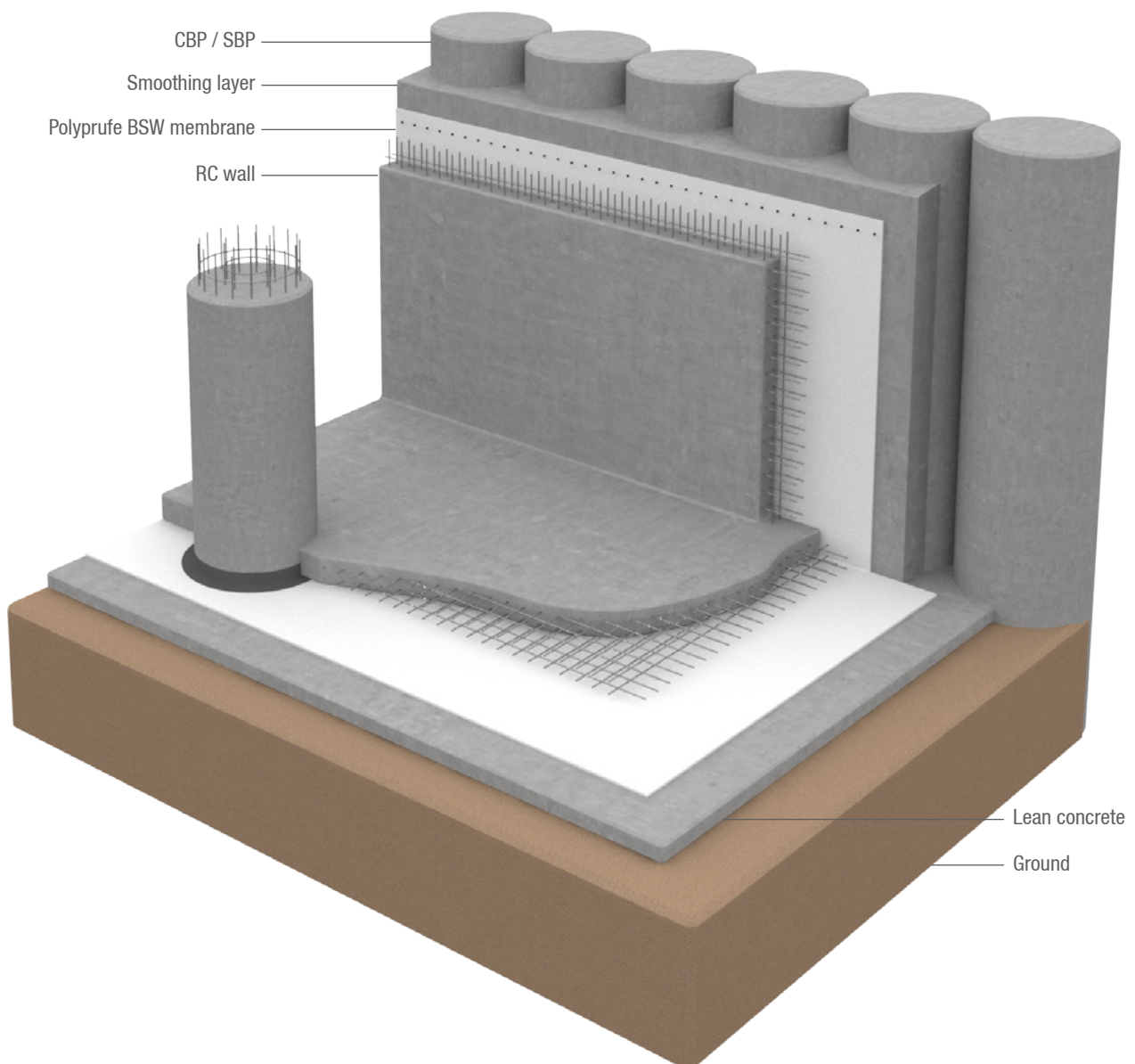
## About Polyprufe® BSW

**Polyprufe® BSW** is a high-performance HDPE Blind-Side waterproofing membrane designed for applications where the waterproofing must be laid prior to pouring of the concrete. It allows for fully-bonded waterproofing membrane to be applied to the positive-side of the building structure even where the said surface is inaccessible to application personnel.

**Polyprufe® BSW** is highly resistant to hydrostatic pressure, ground settlement and soil chemicals. It is also fully mechanically bonded, making it non water-tracking in the unlikely event of damage to the membrane, providing long-term watertight integrity even in the most demanding of applications.

**Polyprufe® BSW** is easy to install, and has a pressure-sensitive self-adhesive which allows for watertight sealing of overlapping sheets. It also allows the membrane to be cold-applied and easily installed in restricted and confined spaces.

**Polyprufe® BSW** provides an effective waterproofing membrane for foundations, tunnels and basements.



## Installation Procedures

**Polyprufe® BSW** should be adhered with the film side to the substrate. On vertical surfaces, the membrane is to be mechanically fastened to the top of the structure first before applying subsequent layers. Overlaps should be staggered in order to prevent a bulge forming, and all succeeding layers must be clean and dry before application in order to ensure a strong, watertight bond.

The substrate should be mechanically sound and not move during the pour. The substrate should also be smooth with no gaps or voids. Any penetrations should be grouted in order to ensure stability. Before the pour, ensure that all plastic release liners are removed. Ensure that no sharp objects are used to consolidate the concrete in order to prevent damage to the membrane.

## Application

Substrate basement and wall slabs in any underground structure with limited working space.

## Advantages

- Excellent adherence to poured concrete
- Non water-tracking
- High resistance to hydrostatic pressure
- High resistance to tears and punctures
- Strong mechanical bond
- Permanently bonds to structural concrete
- No membrane protection required
- Resistant to soil chemicals
- Conforms to LTA Standards

## Technical Specification

	Test Method	Typical Value
Membrane thickness	DIN 53353 : 1979-12	1.2 mm
Dimensional stability	SS 374 : 1994	< 0.4 (long.) < 0.4 (trans.)
Tensile strength	SS 374 : 1994	> 30 N/mm <sup>2</sup> (long.) > 36 N/mm <sup>2</sup> (trans.)
Elongation at break	SS 374 : 1994	> 980 % (long.) > 1350 % (trans.)
Resistance to hydrostatic test	DIN 16726 : 2011	> 50 m – no leakage
Puncture resistance	ASTM E154/E154M: 2008a(2013)e1	> 1000 N
Peel adhesion to concrete	ASTM D903 : 1998 (2010)	> 1200 N/m

## Distributed by:

**Note:** The information provided in this brochure is based on current knowledge and experience and does not infer any legally binding assurance or warranty, expressed or implied. Intending purchasers should verify whether any changes to specifications or applications or otherwise have been made since this literature was issued. Whilst **Polyprufe® BSW** is designed for its intended use, the design calculations shall be the responsibility of the Specifier and/or User.



**ELMICH PTE LTD** [www.elmich.com](http://www.elmich.com)

Singapore: (+65) 6356 2800

[info@elmich.com](mailto:info@elmich.com)

Singapore | Australia | Germany | Malaysia | Switzerland | USA



Management System  
ISO 9001:2015  
ISO 14001:2015  
ISO 22301:2012  
[www.tuv.com](http://www.tuv.com)  
ID: 9105967487

