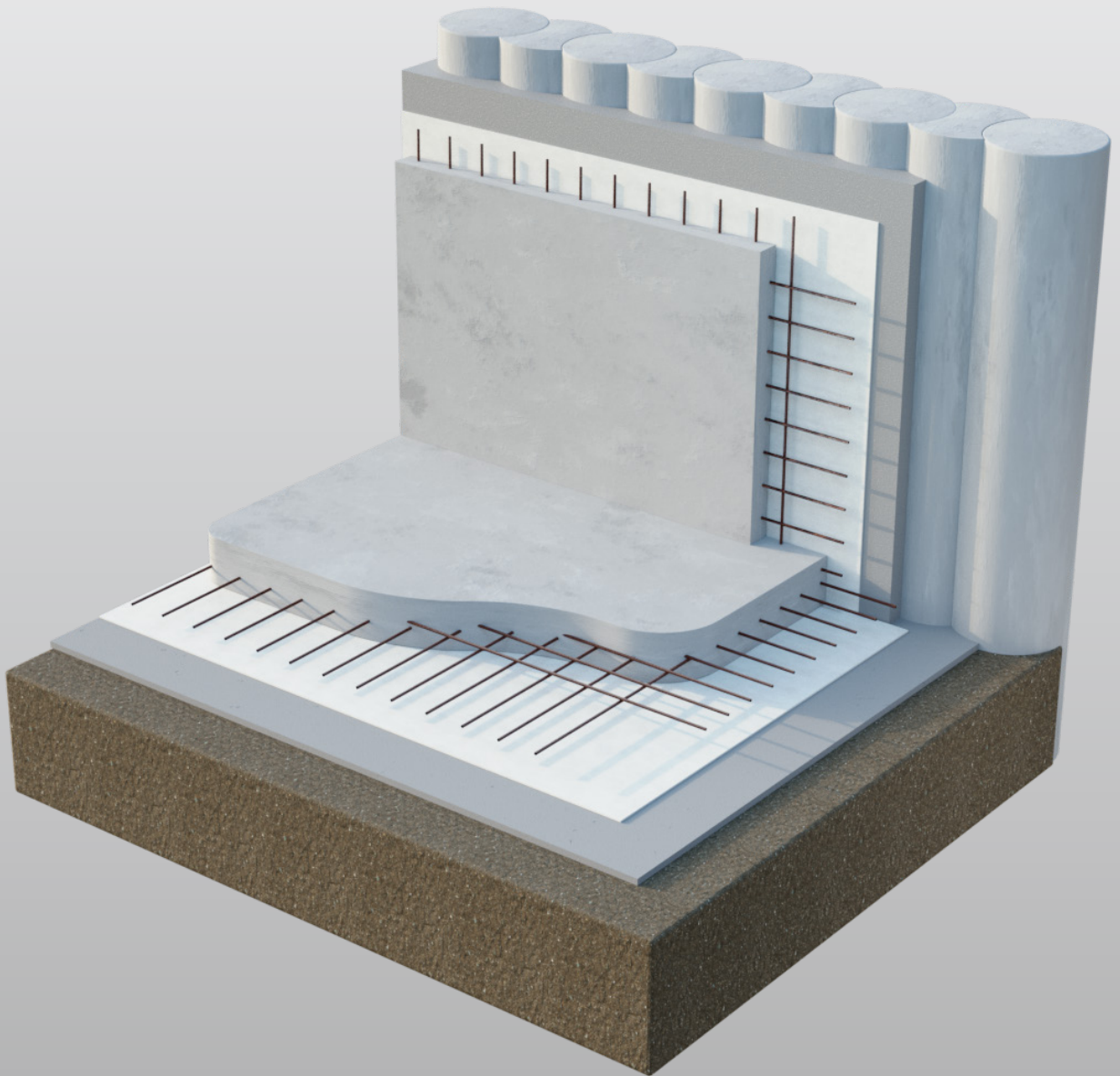


Polyprufe[®] BSW15

HDPE Blind-Side Waterproofing Membrane



We make the difference.
The Elmich Difference.

Polyprufe® BSW15

Polyprufe® BSW15 is a preformed HDPE Blind-Side waterproofing membrane for below ground applications (i.e. tunnels, basements).

About Polyprufe® BSW15

Polyprufe® BSW15 is a high-performance HDPE Blind-Side waterproofing membrane designed for applications where the waterproofing must be laid prior to pouring the concrete. It allows for a 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® BSW15 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® BSW15 is a pressure-sensitive self-adhesive membrane that allows for watertight sealing of overlapping sheets. It is cold-applied and easily installed in restricted and confined spaces.

Polyprufe® BSW15 provides an effective waterproofing membrane for foundations, tunnels, and basements.

Suitable applications also include substrate basement and wall slabs in any underground structure with limited working space.



Installation Procedure

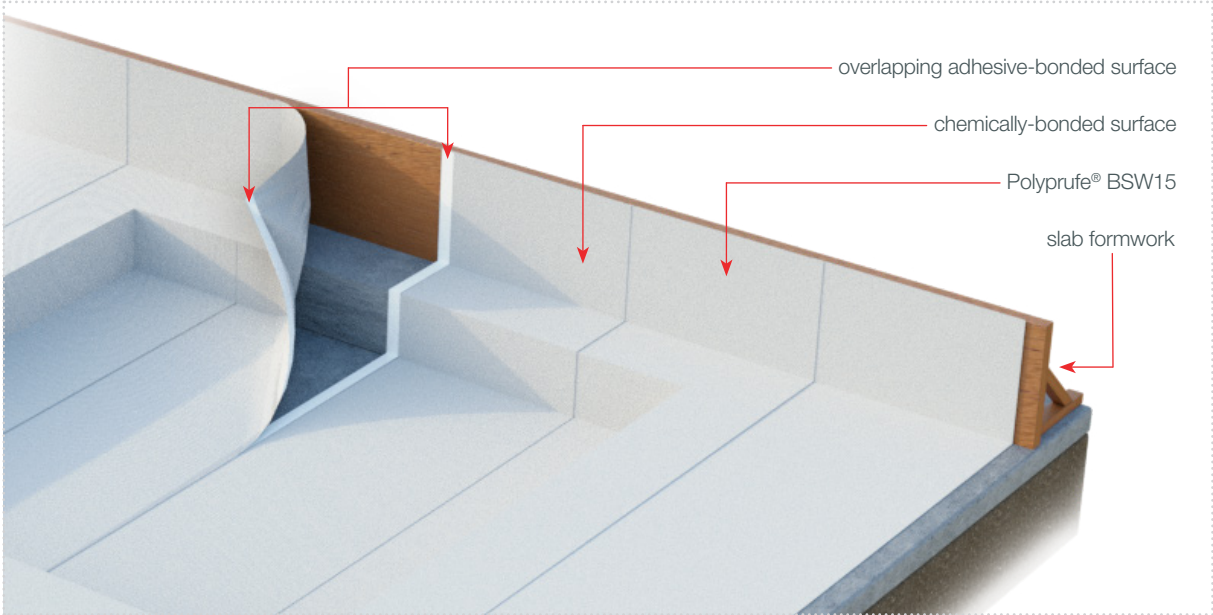
Polyprufe® BSW15 should be adhered with the film side to the substrate. On vertical surfaces, the membrane is to be mechanically fastened to the top of the structure first before applying subsequent layers. Overlaps should be staggered in order to prevent a bulge forming, and all succeeding layers must 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.

Advantages

- Excellent adherence to poured concrete which inhibits lateral water migration
- Strong chemical bond that allows permanent bonding to the structural concrete
- Integral watertight seal ensures that Polyprufe® BSW15 is unaffected by ground settlement beneath concrete slabs
- Highly resistant to hydrostatic pressure, tears and punctures
- Bonding will not be triggered prematurely during construction in wet weather conditions
- Membrane protection is not necessary and can be placed over lean concrete
- Impermeable barrier due to its zero permeance to moisture and water
- Fully-sealed watertight detailing and lappings
- Strong resistance against soil chemicals
- Quick and easy installation that requires no angle fillets or surface priming prior membrane placement

Typical Details



Basement

Projects



Technical Specifications

	Test Method	LTA Requirements	Test Result
Membrane thickness	DIN EN ISO 2286-3	>1.2 mm	Pass
Dimensional stability	SS374	<0.5%	Pass
Tensile strength	SS374	>25 MPa	Pass
Elongation at break	SS374	>300%	Pass
Peel adhesion to concrete	ASTM D903	>750 N/mm	Pass
Resistance to hydrostatic head	DIN 16726	>50 m	Pass
Puncture resistance	DIN 16726	1000 N	Pass

DIN 16726 for the storage of test specimens in aqueous solutions. The specimens shall be tested for the above properties in accordance with the respective ASTM/DIN standards.



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