

TRUBUILD TRUBOND PRO W 1.5MM



TECHNICAL DATA SHEET VER NO. 1.1

Trubuild TruBond Pro W is a preformed HDPE fully bonded weldable membranes comprised of a thick HDPE film, pressure sensitive adhesive and weather resistant protective coating. These membranes bond with wet concrete cast on the membranes, to form an excellent sealing which effectively stops lateral water migration. Thus, it prevents ingress of water into the structure and tracking of water between membrane and structure. Reinforcement can be directly laid on top of membrane.

ADVANTAGES



- Excellent Adhesion with concrete placed over the membrane, to protect the structure effectively
- Joints and overlaps are hot welded to ensure zero leakage through lap joints.
- Low flatness requirement to substrate; reliable overlapping; fast and easy application.
- 100 mm overlaps ensure effective water-tight joints once overlaid with concrete.
- Lesser joints and overlaps, due to large roll widths.
- Adaptable to varying surface profile of the substrate.
- Resistant to high hydrostatic ground water-pressure.
- Resistant to aggressive ground water conditions.
- Eco-friendly material
- Good puncture resistance



AREAS OF APPLICATION



APPLICATIONS

- Basements
- Subways, underground metro
- Retaining walls for confined
- Cut and cover tunnels
- Caverns
- Other underground civil works

AVAILABLE PACKING



Roll size of 20 m length x 2.4 m width

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HOW TO USE

SURFACE PREPARATION

- Horizontal blinding – Monolithic concrete blinding must be free of loose aggregate and sharp protrusions.
- The surface does not need to be dry. However, standing water must be removed.
- Vertical confined surface – Use concrete, sacrificial plywood, masonry with flush levelled joints or other approved facing to provide smooth, level and even support to the membrane

MEMBRANE INSTALLATION

Trubuild Trubond Pro W membranes can be applied at ambient temperatures of -25°C to 60°C.

HORIZONTAL SUBSTRATES

Place the membrane HDPE film side to the substrate with adhesive/coated side facing up towards the concrete pour. End laps should be staggered to avoid a buildup of layers. Accurately position succeeding sheets to overlap the previous sheet with the overlap of 100 mm. Ensure the underside of the succeeding sheet is clean, dry and free from contamination before attempting to overlap. It is recommended to provide a double welded system. A leister variant v2 leister twinny or equivalent welding equipment is recommended.

PRECAUTIONS & LIMITATIONS

Product is approved for uses only those specifically detailed in this product data sheet. Contact technical services where any other use is anticipated or intended.

Technical properties may vary by 5% due to practical challenges like variation in UTM machines, rate of loading, sample preparation, thickness measurement and other manual errors. Contact technical services in such situations.

Note: Tensile strength & elongation has been tested longitudinally. Results in transverse direction.

TECHNICAL DETAILS

SR.NO	PROPERTIES	STANDARD VALUES	STANDARD TEST METHOD
1.	Color	White/Off white	Visual observation
2.	Roll size	20-meter length x 2.4-meter Width	
3.	Membrane Thickness (Composite)	1.5 mm	ASTM D 3767
4.	Tensile Strength	≥28 MPa	ASTM D 412 Modified
5.	Elongation at break	≥600 %	ASTM D 412 Modified
6.	Low Temperature Flexibility	-25°C	ASTM D 1970
7.	Puncture Resistance	≥1100 N	ASTM E 154
8.	Crack cycling	Pass	ASTM D 836/ASTM C 1305 Modified
9.	Peel Adhesion to concrete	1600 N/m	ASTM D 903 Modified
10.	Resistance to Hydrostatic Head	≥60 meters	ASTM D 5385 Modified
11.	Overlap Width	100 mm	

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STORAGE

Store in a dry and cool place

SHELF LIFE

12 months from the date of manufacturing.

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