

TECHNICAL DATA SHEET VER NO. N.1

Trubuild TruBond is a preformed, fully bonded membrane that bonds to the wet concrete cast on the membrane. After the membrane bonds with the concrete, it forms an integral seal which prevents lateral water migration and makes it unaffected by any substrate settlement below the slabs. Reinforcement can be directly laid on top of the membrane and it does not require additional protection. Trubuild TruBond is a unique HDPE membrane comprising of an HDPE layer and a pressure sensitive adhesive layer which is covered by a weather resistant protective coating. The adhesive layer is activated when the concrete is poured on the membrane and it enables the membrane bond to underside of the concrete which prevents the ingress of water into the structure as well as prevents lateral migration of water and provides positive side protection against ingress of subsoil water. Trubuild TruBond can be used for horizontal as well as vertical blind side application.

Standard Compliance / Specification

Complies with IS 16471:2017 & BS 8102:2009 recommendations for providing Type A protection



FEATURES & ADVANTAGES



ELONGATION
500%



MEMBRANE THICKNESS – 1.2 MM



PUNCTURE RESISTANCE – >850 N



TENSILE STRENGTH – 23 MPA

- Excellent adhesion with concrete placed over the membrane, to protect the structure effectively.
- Low flatness requirement to substrate; reliable overlapping; fast and easy application.
- 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



PACKAGING

Roll size of 20 m length x 2.4 m width

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

METHOD OF APPLICATION

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 membranes can be applied at ambient temperatures of -4°C or above

HORIZONTAL SUBSTRATES

- Place the membrane with adhesive side facing the concrete pour and HDPE film side facing the substrate. End laps should be staggered to avoid a buildup of layers. Accurately position succeeding sheets to overlap the previous sheet by 75/100 mm along the marked selvedge.

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 PROPERTIES

S.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)	1.2 mm	ASTM D 3767
4.	Membrane thickness (Bare HDPE)	0.8 mm	ASTM D 3767
5.	Tensile strength	>23 Mpa	ASTM D 412
6.	Elongation at break	>500%	ASTM D 412
7.	Low temperature flexibility (-25°C)	Pass	ASTM D 1970
8.	Puncture resistance	>850 N	ASTM E 154
9.	Crack cycling	Pass	ASTM C 1305
10.	Peel adhesion to concrete	>900 N/m	ASTM D 903
11.	Resistance to hydrostatic head	>65 meters	ASTM D 5385

STORAGE

Store in a dry and cool place.

SHELF LIFE

12 months from the date of manufacturing.

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