



PRE APPLIED FULLY BONDED HDPE MEMBRANE WITH TWO SIDE LAP

Description

Dr. Fixit Prebond Pro membrane is a preformed HDPE fully bonded membrane sand finish, two side-lap. Dr. Fixit Prebond Pro designed with double side adhesive which results in adhesive-to-adhesive bond on seldge overlaps, which improves significantly overlapping strength. Even under harsh application conditions like rains, water etc, this will achieve effective bond between the membranes.

Dr. Fixit Prebond Pro is a unique HDPE membrane comprising of a HDPE layer and a pressure sensitive adhesive layer which is covered by a weatherproof protective granular layer. 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 tracking of water between the membrane and the structure and provide a positive side protection against ingress of sub soil water. Dr. Fixit Prebond 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

Typical Application

- Basement Raft & Confined retaining walls.
- Subway and UG metro projects.
- Cut and cover tunnels.
- Other underground civil structures.

Features

- Excellent Adhesion with concrete placed over the membrane, to protect the structure from positive side.
- Low flatness requirement to substrate; reliable overlapping; fast and easy application.
- Two side lap makes the joints more robust.
- Excellent UV Resistance for longer exposure up to 45 days.
- Resistant to high hydrostatic ground water-pressure.
- Resistant to aggressive ground water conditions.
- Eco-friendly material.

Method of Application

1 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.

2 MEMBRANE INSTALLATION

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

3 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 mm along the marked seldge.
- Peel back the plastic release liner from between the overlaps as the two layers are bonded together. Ensure a continuous bond is achieved without creases and roll firmly with a heavy roller.
- Ensure the underside of the succeeding sheet is clean, dry and free from contamination before attempting to overlap.



- Leave plastic release liner in position until overlap procedure is completed.
- As an additional protection any portion which may be opened up shall be bonded together using a hot air blower/ using additional tapes.

4 VERTICAL SUBSTRATES (CONFINED RETAINING WALL AREAS)

- Membrane can be vertically installed using double sided adhesive tape or mechanically fasten the membrane vertically using low head fixings (i.e. fasteners or roundels) at selvedge portions only with the adhesive side facing towards the concrete pour.
- The membrane may be installed in any convenient length. Secure the top of the membrane using a batten such as a termination bar or fixing 50 mm below the top edge.
- Fixings can be made through the selvedge so that the membrane lays flat and allows firmly rolled overlaps.
- Any additional fixings must be covered with a patch of Prebond Tape.
- Ensure the underside of the succeeding sheet is clean, dry and free from contamination before attempting to overlap. Roll firmly to ensure a watertight seal.

Roll Ends and Cut Edges

Overlap all roll ends and cut edges by a minimum of 100 mm and ensure the area is clean and free from contamination. Apply Dr. Fixit double sided Tape over the lap and roll firmly.

5 CORNERS

- Internal and external corners should be formed as shown in the diagrams returning the membrane a minimum of 100 mm and sealing with Prebond Tape. Ensure that the apex of the corner is covered and sealed with tape and roll firmly.

Technical Features

PROPERTIES	TYPICAL VALUE	TEST METHOD
Colour	White/Off White	Visual Observation
Thickness Composite	> 1.5 mm	ASTM D 3767
Bare film thickness	> 0.9 mm	ASTM D3767
Tensile Strength (Bare HDPE film)	25 MPa	ASTM D 412
Elongation (Bare HDPE film)	500%	ASTM D 412
Low Temperature Flexibility	- 25°C Pass	ASTM D 1970
Resistance to Hydrostatic Head	70m	ASTM 5385 - 6
Crack Cycling	Pass	ASTM D 836/ASTM C 1305 Modified
Peel Adhesion to Concrete	880 N/m	ASTM D 903
Puncture Resistance	1000 N	ASTM E 154
Water absorption	0.5%	ASTM D 570
UV Exposure	45 days pass	Internal test method
Lap Peel Adhesion	1500 N/m	ASTM D1876

All test parameters are obtained under controlled Lab conditions.

Limitations

1. Product is approved for uses only those specifically detailed in this product data sheet. Contact Pidilite technical services where any other use is anticipated or intended.
2. Technical properties may vary by 5 % due to practical challenges like variation in UTM machines, type of loading, sample preparation, thickness measurement and other manual errors. Contact Pidilite Technical Services in such situations.

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



Packaging

Roll Size : 20m X 1m, 20m X 2m

Shelf Life

The shelf life is 12 months if stored as per the recommendations. In a covered and secured storage space.

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