

PRODUCT DESCRIPTION

TREMproof® 3700 HD is a pre applied fully bonded HDPE membrane which integrally bonds when concrete is poured on it. It consists of multi-layer composite waterproofing material for superior waterproofing performance, including a layer of thick HDPE film, self-adhesive polymer layer and a unique particulate layer.

TREMproof® 3700 HD is 1.2 & 1.5 mm thickness composite sheet designed for use for below ground waterproofing of concrete structures. Once installed TREMproof® 3700 HD creates an integrally bonded, high performance waterproofing & protection layer for below ground concrete structures against protection from Ground water, contaminants, ground gases.

BASIC USES

TREMproof® 3700 HD is to be applied for Waterproofing and protection of:

- Horizontal Slabs, Raft, Foundation
- Vertical Confined walls, Blindsides Waterproofing
- Close Property line Construction, Deep Foundations
- Below ground Pits, Sumps, Underground Tank
- Cut & Cover Tunnels, MRT, Subway, Metro Station
- Bottom Up, Top Down & Pre-Cast, Diaphragm Wall

FEATURES AND BENEFITS

- Forms permanent integral bond to concrete.
- Prevents water from seeping or tracking between concrete & membrane.
- Unaffected by ground settlement.
- Effective barrier from water, moisture contaminants.
- Self-protecting can be trafficked immediately
- Accelerates construction program; quick to install
- No protection needed.

AVAILABILITY

- Contact your Local Tremco Sales Representative.

ACCESSORIES

- TREMproof® 3700 HD seal tape:
- Length: 20 M Width: 100mm Thick :0.6mm

STORAGE

Store TREMproof® 3700 HD & its accessories be stored in the original, undamaged packaging in a clean, dry and protected location where temperatures do not exceed 37°C. Do not double stack pallet.

SHELF LIFE

1 year when stored in accordance with storage instructions.

INSTALLATION

Surface Preparation Horizontal Substrate

- It is essential to create a sound and solid substrate to eliminate movement during concrete pour.
- Substrate must be regular and smooth with no gaps or voids.
- Horizontal blinding must be free of loose aggregates & sharp protrusion.
- For installation of TREMproof® 3700 HD, the substrate does not need to be dry, but standing water must be removed.

Vertical Substrate

- TREMproof® 3700 HD can be used for blindsides waterproofing after either using concrete, plywood, or other suitable materials to provide uniform & proper support.

Membrane Installation

- TREMproof® 3700 HD is supplied as rolls, which are easy to kick out or roll out with particulate side facing towards upcoming concrete pour.
- TREMproof® 3700 HD rolls can be staggered to avoid end laps alignment on same page.
- Accurately position succeeding sheets to overlap the previous sheet with 75mm along with marked selvedge.
- Peel back the release liner from selvedge and press the rolls to create an adhesive bond between adjoining membranes.
- Ensure continuous bond is achieved without creases and roll firmly with a heavy roller.
- For vertical installation TREMproof® 3700 HD mechanically fasten the membrane using fasteners along the selvedge. Accurately position the succeeding sheets to overlap fastened zone.
- End laps to sealed using TREMproof® 3700 HD seal tape [Double sided tape]. Refer method statement.
- For creating a Tanked waterproof system, TREMproof® 3700 HD is compatible with other Tremco Sheets, Liquid and Spray Applied product systems.

Pile Head, Pipes, Construction & Expansion Joints

- Refer Tremco Details.

Applicable Standards

TREMproof® 3700 HD conforms to:

- BS 8102: 2022
- EN 13967: 2012

Product Property

Top Surface	Off White Sand With Release film on overlap selvedge
Bottom Surface (HDPE)	White HDPE sheet
Sand Colour	White / Off White
Width	1.2 m
length	20 m
Thickness	1.2 mm and 1.5 mm
Sq.Mtrs	24

Technical Specification

Item	Standard	Unit	Specification
Total Composite Thickness	ASTM D-3767	mm	Min 1.20 Min 1.50
HDPE Flim thickness	ASTM D-3767	mm	Min 0.90 Min 1.20
Tensile Strength- MD/ TD (HDPE Sheet)	ASTM D-412	MPa	≥ 27
Elongation at Break- MD/TD (HDPE Sheet)	ASTM D-412	%	≥ 500
Puncture Resistance	ASTM E-154	N	> 1000
Lap peel adhesion	ASTM D-1876	N/m	Min 1500
Peel adhesion to concrete after 7 days (Normal Condition)	ASTM D-903	N/m	Min 1500
UV exposure test 45 days	ASTM G154	---	90% retention value for tensile & elongation
Water Vapour Permeance	ASTM E96, Procedure B	Perms	0.10 Max
Lateral water migration resistance, of hydrostatic head pressure	ASTM D5385	m	≥ 70
Water absorption	ASTM D 570	%	Not exceeding 0.5%
Low Temperature Flexibility	ASTM D1970	° C	≤ -25°C, no crack

Packaging: -

Roll Weight in kgs	42 ± 5 % (for 1.2 mm thickness) 51 ± 5 % (for 1.5 mm thickness)
Roll Length in meters	20
Roll Diameter in mm	220 ± 10 (for 1.2 mm thickness) 235 ± 10 (for 1.5 mm thickness)
Liner material	Polyethylene
Paper Core Size	Width- 1210 mm, ID- 76.5 MM , Thickness 5 mm
End plug core	PP material, 2 Nos

LIMITATIONS

- Tremco does not recommend the TREMproof® 3700 HD membrane to be kept open to sunlight beyond recommended duration post installation. In case of doubt contact Stoncor Middle East technical department.

WARRANTY

- Stoncor Middle East warrants its Products to be free of defects in materials but makes no warranty as to appearance or color. Since methods of application and on-site conditions are beyond our control and can affect performance, Stoncor Middle East makes no other warranty, expressed or implied, including warranties of MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE with respect to Tremco Products. Stoncor Middle East's sole obligation shall be, at its option, to replace or to refund the purchase price of the quantity of Tremco Products proven to be defective, and Stoncor Middle East shall not be liable for any loss or damage. Please refer to Stoncor Middle East Warranty guidelines.

• Please contact us at info@stoncor-me.com to confirm the most up-to-date Product Data Sheets.

NOTE: All Tremco Safety Data Sheets (SDS) are in alignment with the Globally Harmonized System of Classification & Labelling of Chemicals (GHS) requirements.