



MULTIGUARD®
Complete Leakage Protections

HYDROFAB®-PE DUEL SELVEDGE
Prefabricated HDPE waterproofing Membrane Sanded with Duel
Selvedge with Adhesive

INTRODUCTION:

MULTIGUARD® HYDROFAB® PE DUEL SELVEDGE is a thick prefabricated high-density polyethylene membrane, inorganic fine granules coated, duel selvedge for overlap with an aggressive, pressure-sensitive adhesive. Unlike conventional non-adhering membranes, which are vulnerable to water ingress tracking between the unbonded membrane and structure, the unique **HYDROFAB® PE DUEL SELVEDGE** seal to concrete prevents any ingress or migration of water around the structure.

It is ideal product for water and damp proofing of terrace, roofs, sunken slab, and basement etc. where structural movement or future crack is expected.

Unique Features:

- Forms a unique, integral seal to concrete poured against it. This prevents water migration and makes it unaffected by ground settlement beneath slabs.
- Fully-adhered watertight laps and detailing.
- Provides a barrier to water, moisture and gas — physically isolates the structure from the surrounding ground.
- Superior flexibility
- Long term crack resistance
- Superior freeze/thaw resistance
- Very low shrinkage
- Non-toxic
- Chemically resistant, effective in all types of soils and waters - protects structure from salt or sulphate attack.

USES:

To waterproof basement, tunnel, flyover and damp-proof concrete, cement rendering, brickwork and blockwork. To protect concrete against the effects of freeze-thaw cycles, de-icing salts, carbon dioxide and other acid gases, dilute acids and alkalis.

This includes: Waterproofing of concrete slabs, balconies, water tanks, sealing internal basement and cellar walls against dampness, protection of concrete structures in marine environments, external tanking of substructure concrete such as basement raft and wall in new buildings.





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TECHNICAL DATA:

PROPERTIES	RESULTS
Appearance	White membrane
Type	HYDROFAB PE DUEL SELVEDGE
Composite Thickness	1.2mm
HDPE Film Thickness	0.9mm
Puncture Resistance, ASTM E154	1000 N
Low temperature Flexibility	-25 °C
Tensile Strength	25 MPa
Elongation	Min. 500%
Resistance to Hydrostatic Pressure	70 m
Peel Adhesion to Concrete	1.5 N/mm
Thermal Resistance, 70 °C, 2Hr	No bleeding, displacement or flowing
Dimensional Stability, 6 hr @ 70 °C, ASTM D 1204	1% max
Water Vapour Permeance, Perms, ASTM E96, Procedure B	0.1% max

Typical test values represent average values from samples tested.

APPLICATION DATA:

PREPARATION

HYDROFAB™ PE DUEL SELVEDGE membranes are supplied in rolls 1.2m wide, with a selvedge on one side to provide self-adhered laps for continuity between rolls. The rolls of **HYDROFAB® PE DUEL SELVEDGE** membrane and Tape are interwound with a disposable plastic release liner which must be removed before placing reinforcement and concrete.

It is important to create a sound and solid substrate to eliminate movement during the concrete pour. Substrates must be regular and smooth with no gaps or voids. Grout around all penetrations such as utility conduits, etc. for stability.

Horizontal Blinding — Monolithic concrete blinding or mud slab is preferred. The blinding must be free of loose aggregate and sharp protrusions. An angular profiled blinding is recommended rather than a sloping or rounded substrate. The surface does not need to be dry, but standing water must be removed.

Vertical Sheet Piling — Use concrete, plywood, insulation or other approved facing to sheet piling to provide support to the membrane. Board systems such as timber lagging must be close butted to provide support and not more than 12mm out of alignment.





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PLACING

Peel off the release film from the self adhesive side and start unrolling the membrane and press it to the surface. Smoothen the membrane from the center to the edges with a wooden press in order to remove any entrapped air. Furthermore, an iron roller shall be used for rolling on top of the applied membrane to ensure a proper and strong adhesion of the adhesive compound with the base surface. Side overlaps shall be a minimum of 50mm on the selvedge and end overlaps 100mm.

Protection

The membrane shall be protected from damage due to ongoing site activities or from aggregates during backfilling by a tough, weather, warp and rot proof protection board (**Multiboard / Multistick**). Alternatively, on horizontal areas the membrane can also be protected by laying a cement sand screed (50mm). **Multiboard** can be fixed with a double sided adhesive bitumen tape (**Multistick**).

CLEANING

All tools should be cleaned with water or suitable solvent immediately after use.

STORAGE:

Store in dry, frost-free conditions at moderate temperature not **greater** than 25 °C.

PACKAGING:

Pack Size, (thickness X Width X Length, Weight):

1.2mm x 1.2 m x 20 M, 42 Kg; 1.2 mm x 1.5 m x 20 M, 53 Kg

SAFETY DATA:

- **Keep out of reach of children. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice.**
- **Wear suitable protective clothing, gloves and eye/face protection.**

Please consult our technical department for further information.



MULTICHEM GROUP | 510, Exim Link, MG Link Road, Nahur (W), Mumbai-400078, Phone

No.: 91-9323890195 9619091025, e-mail: info@multichemgroup.net

www.multichemgroup.net

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WARRANTY

Multichem warrants Multiguard® HYDROFAB® PE PE DUEL SELVEDGE to be free from manufacturing defects as defined in this warranty. Manufacturing defects are considered to be those defects that occur due to the quality of the ingredients or from the manufacturing process itself. This warranty does not include labor costs and other costs or expenses associated with the removal or installation of Multiguard® HYDROFAB® PE DUEL SELVEDGE.

Because the Multichem does not perform the actual installation, it cannot be held responsible for the results of the application. Multichem specifically disclaims problems that occur due to weather conditions, structural movement, structural design flaws and application techniques.

This warranty is in lieu of all other warranties expressed or implied including the warranty of merchantability and fitness of purpose and of all other obligations or liabilities on Multichem part. Multichem neither assumes nor authorizes any person to assume for Multichem any liability in connection with the sale and installation of Multiguard® HYDROFAB® PE DUEL SELVEDGE.

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