



**MULTIGUARD**<sup>®</sup>  
Complete Leakage Protections

# HYDROFAB-SB XT100

Cross laminated Self-adhesive SBS membrane

## INTRODUCTION:

**MULTIGUARD HYDROFAB-SB XT100** is SBS Polymer modified self-adhesive water- proofing membrane. The bitumen compound is laminated onto an impervious, non-perforated, cross laminated HDPE film.

## Unique Features:

- Designed principally for tropical climate grade
- Provides protection against water and vapor
- Hassle free, peel off self-adhesive silicone film and that sticks to the surface
- First-rate adhesion to vertical and horizontal surfaces
- Resistant to chlorides, sulphate, alkalis and acids
- Excellent tear and puncture resistance
- Outstanding tensile strength

## 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 walls in new buildings.

## TECHNICAL DATA:

PROPERTIES	RESULTS	UNITS
Thickness, [mm]	1.5mm	mm
Elongation of Film	250/230 %	%
Puncture resistance	>300N	N
Tensile Strength Longitudinal/Transvers	4.5/4	N/mm <sup>2</sup>
Elongation	>300 %	%
Adhesion to primed concrete	2.5	N/mm
Lab Adhesion Strength	700	N/m



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Multiguard HydroFab SB XT100/2024/R0-30072024



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## HYDROFAB-SB XT100

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<b>Tear resistance Longitudinal/Transverse</b>	33/30	<b>N/mm</b>
<b>Adhesion to self- Lap adhesion</b>	2.5	N/mm
<b>Moisture vapour transmission</b>	<0.3	g/m <sup>2</sup>
<b>Crack bridging ability</b>	>1.5	mm
<b>Softening Point(R&amp;B)</b>	105°C ±5	°C
<b>Hydrostatic pressure @ 6bar (60m)</b>	No leakage	--

All values given are subject to 5-10% Variance

### RECOMMENDED APPLICATION:

- Waterproofing in general, where the use of fire/flare is not possible.
- Waterproofing structural concrete and masonry walls.
- Waterproofing and protection of underground structures.
- Waterproofing membrane for inverted roofing systems.
- Waterproofing of balconies, bathrooms, swimming pools and tunnels.

### APPLICATION DATA:

The application temperature should be between 5°C to 55°C. Application procedure may vary slightly from site to site. Follow the recommended Guidelines for application of self-adhesive waterproofing system.

### PREPARATION

The substrate must be smooth, clean, and should not have oil/grease and defects or irregularities. This might bruise the membrane. Use of a wire brush or broom is suggested for the removal of dirt, dust or any other contaminants.

### PRIMING

Use a brush, a roller or a spray to apply **MULTIPRIME SB** (Solvent based primer) @6-m<sup>2</sup>/l on a clean, smooth and dry surface. Let it dry before applying the membrane. The low viscosity of the primer lets it easily penetrate into the concrete pores subsequently promoting the adhesion between the membrane and the Concrete surface. The primer also acts as a binder for the dust which gets accumulated on the concrete surface even after cleaning.

### ALIGNMENT:



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Start installing the membrane piles from the low points or drains. This makes the flow of water over or parallel to the piles but never against it. Install all the overlaps at the membrane seams so as to have "up" slope Laps over "down" slope laps. Initiate membrane application by unrolling the roll of **HYDROFAB-SB XT100** membrane and aligning the side laps.

### **APPLICATION:**

Peel off the release film from the self- adhesive side. Unroll the membrane and press it to the surface. Remove the entrapped air using a wooden press from center to the edges, thereby smoothening the membrane. Furthermore, use an iron roller to ensure a proper and strong adhesion of the bitumen compound with the base surface by rolling on top of the applied membrane. A minimum of 50mm should be the side overlaps and end overlaps should at least be 100mm.

### **PROTECTION:**

Use **HYDROFAB MULTIBOARD**, a tough, weather, warp and rot proof asphaltic protection board to protect the membrane immediately after the application from any damage resulting from the ongoing site activities or from sharp aggregates during backfilling. The membrane can also be protected by laying a cement sand screed (50mm) on horizontal areas. Use **HYDROFAB<sup>®</sup>-MultiStik**, a double-sided adhesive bitumen tape to fix **HYDROFAB MULTIBOARD**.

### **HANDLING**

**HYDROFAB-SB XT100** membranes are packed in loose corrugated boxes so as to avoid any damage resulting from transit or on-site storages. Avoid puncturing or damaging the membranes by not keeping them in close proximity with any sharp protruding edges when storing on site.

### **STORAGE:**

- The rolls must be stored vertically in a covered area, should not be exposed to direct sunlight, UV and other sources of heat.



- The shelf life of the product is up to 12 months from the date of production.
- Excessive exposure to sunlight and UV may lead to slumping of the product and reduce its shelf life.

## PACKAGING / SUPPLY

**HYDROFAB SB XT100** is supplied in: **1.5mm:** 1mx10m, wt. 16kg\*

**2.0mm:** 1mx20m, wt. 32kg\*  
1mx10m, wt. 21kg\*

## SAFETY DATA

- **Due to presence of tacky bitumen compound BM SELF XL100 membrane can adhere to human skin during application. Use a soft cloth dipped in a suitable cleaner to remove bitumen stains.**
- **If the burn is deeper take medical help immediately.**
- **Wear suitable protective clothing, gloves and eye/face protection.**

Please consult our technical department for further information.

## WARRANTY

Multichem warrants Multiguard HYDROFAB SB XT100 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 SB XT100.

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 SB XT100.

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