



# Dr. Fixit Samshield XL 1500 E

## CROSS LAMINATED SBS SELF ADHESIVE WATERPROOFING MEMBRANE

Dr. Fixit Samshield XL 1500 E is a SBS modified self-adhesive cold applied waterproofing membrane based on a tropical grade of polymer modified bitumen. The bitumen compound is laminated onto an impervious, non-perforated, HDPE (cross-laminated) film. The membrane is protected on the self-adhesive side with a silicone coated release film

### Typical Applications

Dr. Fixit Samshield XL 1500 E used as waterproofing and damp proofing intended for concrete protection. It may be used for horizontal and vertical application and as a damp proofing course for tanking below ground structures, subways, retaining walls etc.

### Features

- Specially formulated for tropical climate grade.
- Provides protection against water and vapour.
- Self-adhesive, requires just peeling off the silicone film and sticking to the surface.
- Excellent adhesion to vertical and horizontal surfaces.
- Excellent resistance to chlorides, sulphates, alkalis and acids.
- Good tear and puncture resistance.
- Excellent tensile strength. No flame hazard/ heating required.

### Method of Application

Application procedure may vary slightly depending upon site conditions. The general recommended guidelines for the application of the self-adhesive waterproofing system are as follows:

#### 1 SURFACE PREPARATION

- The surface shall be cleaned thoroughly of all contaminants like dust, traces of curing compound, oil and grease. All surface imperfections, protrusions, structurally unsound and friable concrete must be removed and repaired with a suitable concrete repair mortar.

#### 2 PRIMING

- Apply Dr. Fixit Torchshield Primer @ 4-6 sq.mtrs./litre to a clean, smooth and dry surface by brush or roller. Allow the primer to dry prior to the application of the membrane. As the viscosity of the primer is low, it easily penetrates into the concrete pores which promote the adhesion between the membrane and the concrete surface. In addition to that the primer also acts as a binder for the dust which gets accumulated on the concrete surface even after cleaning.

#### 3 ALIGNMENT

Start the installation of all membrane plies from the low point, so that the flow of water is over or parallel to the plies, but never against the laps. Begin membrane application by unrolling the roll of Dr. Fixit Samshield XL 1500 E membrane and aligning the side laps.

#### 4 APPLICATION

- 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 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 bitumen compound with the base surface. Side overlaps shall be a minimum of 75 mm on the selvedge and end overlaps 100 mm.

## 5 PROTECTION

- The membrane shall be protected immediately after application from damage, due to ongoing site activities or from sharp aggregates during backfilling by a tough, weather, warp and rot proof asphaltic protection board. Alternatively, on horizontal areas the membrane can also be protected by laying a cement sand screed (50 mm).

## Technical Information

| Properties                                                                                            | Typical Value                          | Test Method     |
|-------------------------------------------------------------------------------------------------------|----------------------------------------|-----------------|
| Thickness                                                                                             | 1.5 mm                                 | ASTM D 5147     |
| HDPE Film Thickness                                                                                   | 0.1 mm                                 | ASTM D 5147     |
| Elongation (Longitudinal)                                                                             | > 300 %                                | ASTM D 5147     |
| Elongation (Transverse)                                                                               | > 200 %                                |                 |
| Tensile Strength (Longitudinal)                                                                       | $\geq 4\text{N/mm}^2$                  | ASTM-D 412-06   |
| Tensile strength (Transverse)                                                                         | $\geq 4\text{N/mm}^2$                  |                 |
| Tear Strength (Longitudinal)                                                                          | 150 N                                  | ASTM D 4073     |
| Tear Strength (Transverse)                                                                            | 150 N                                  |                 |
| Low temperature Flexibility                                                                           | - 10°C No Cracking or Tearing observed | ASTM D 1970     |
| Peel Adhesion to concrete                                                                             | > 2 N/mm                               | ASTM D 1000     |
| Adhesion to self - Lap adhesion                                                                       | >1.8 N/mm                              | ASTM D1000      |
| Moisture vapour transmission                                                                          | <0.3 g/m <sup>2</sup> /24hrs.          | ASTM E 96       |
| Crack bridging ability                                                                                | > 1.5 mm                               | ASTM C 836      |
| Softening Point (R&B)                                                                                 | 105 C                                  | IS: 1205/1978   |
| Resistance to Puncture, N >200                                                                        | 380                                    | ASTM E154-2008  |
| Resistance to Hydrostatic Head & water migration (At 7 bar or 70 m of water pressure Head for 1 hour) | No Leakage observed                    | ASTM D5385-2000 |

## SUPPLY

Dr. Fixit Samshield XL 1500 E, 1.5 mm thick, 1 m x 20 m, WT 40 kg (approximate)

## Handling

Dr. Fixit Samshield XL 1500 E membranes are supplied in rolls of 1 m x 20 mtrs. The rolls are packed in loose corrugated boxes to avoid damage during transit or during storage at sites. Care should be taken when storing the membranes on sites and should not be kept within close proximity of any sharp or protruding edges to avoid puncturing or damaging the membrane.

## Shelf Life

Dr. Fixit Samshield XL 1500 E membranes must be stored in a shaded area on wooden pallets neatly covered by a thick fabric and tied securely in a manner that will minimize exposure to sunlight and UV rays. The membrane shall be protected from all source of heat. The shelf life is 18 months if stored as per the recommendations. Excessive exposure to sunlight, UV rays and other source of heat will result in considerable deterioration of the product and reduce its shelf life.



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