



Dr. Fixit Samshield XL 1500/2100

CROSS LAMINATED SELF ADHESIVE WATERPROOFING MEMBRANE

Description

Dr. Fixit Samshield XL is a self adhesive waterproofing membrane based on a tropical grade of polymer modified bitumen. The bitumen compound is laminated onto an impervious, non-perforated, cross laminated HDPE film. The membrane is protected on the self adhesive side with a silicone coated release film. Dr. Fixit Samshield XL conforms to the requirement of BS 8102.

Areas of Application

Dr. Fixit Samshield XL 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 and retaining walls..

Features & Benefits

- 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.

Method of Application

The application temperature should be between 4°C to 45°C. 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 Bitushield Primer SB @ 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 or drain, so that the flow of water is over or parallel to the plies, but never against the laps. All overlaps at the membrane seams shall be installed so as to have "up" slope laps over "down" slope laps. Begin membrane application by unrolling the roll of Dr. Fixit Samshield XL membrane and aligning the side laps.



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 50mm on the selvedge and end overlaps 100mm.

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	VALUES		TEST STANDARDS
Thickness (mm) (XL 1500/2100)	1.6	2.1	DIN EN 1849-1
Mass per unit area, (kg/m ²) (XL 1500/2100)	1.6	2.1	DIN EN 1849-1
Top Surfacing	Cross Laminated HDPE film		
Softening Point, (R&B) (°C)	> 105		ASTM D 36
Tensile Strength (L/T), (N/mm ²)	42/48		ASTM D 882
Elongation (L/T), (%) Film	230/180 Trans 180		ASTM D 882
Tear Resistance (L/T), (N) Film	340/310		ASTM D 1004
Adhesion Strength, (L/T), (N/ mm)	2.0		ASTM D 1000
Primed Substrate Self	2.2		
Puncture Resistance, (N)	> 220		ASTM E 154
Hydrostatic pressure	> 50 m (5BAR) No leakage		BS EN 12390 (Part 8)
Water Absorption, (%) Film	0.14 @ 24 hrs (g/m ²)		ASTM D 570
Water vapour transmission, (G/m ² / 24 hours)	< 0.1		ASTM E 96
Chemical Resistance (pH)	2.5-11.5		ASTM D 543
Low temperature Flexibility	- 15°C		ASTM D 1970
Crack Bridging Ability, (mm)	> 1.5		ASTM C 836

*All values given are subject to 5-10%

SUPPLY		
Dr. Fixit Samshield XL	1.6 mm	1 m x 10 m, WT 16 kg*
	2.1 mm	1 m x 10 m, WT 21 kg*
Dr. Fixit Bitushield Primer SB		20 ltr

*Approximate Weight

HANDLING

Dr. Fixit Samshield XL membranes are supplied in rolls of 1m x 10mtrs. 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 & Storage

Dr. Fixit Samshield XL 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 12 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.

Health & Safety

Dr. Fixit Samshield XL contains tacky bitumen compound and can adhere to human skin during application. Bitumen stains can be removed by using a cloth dipped in a solvent. In case the affected area is sensitive one, seek medical assistance immediately.

Other Products Categories available

Dr. Fixit brings you the widest range of Construction Chemicals



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