

Dr. Fixit Samshield PS 2100



GEOTEXTILE SURFACED SBS MODIFIED BITUMEN SELF ADHESIVE WATERPROOFING AND PROTECTION MEMBRANE

Description

Dr. Fixit Samshield PS is a SBS modified bituminous, self adhesive sheet membrane laminated onto a tough polyester fleece to provide a highly superior waterproofing and protection membrane for underground concrete structures. The self adhesive side protected with a silicone release film. A selvedge is provided on one side of the membrane to give a bitumen to bitumen contact on the overlaps, thus restricting any water penetration through the laps.

Typical Applications

Due to its flexibility and presence of a tough and durable top surface, this membrane can be used as a direct substitute for protection boards where soft backfill is used. **Dr. Fixit Samshield PS** has a layer of SBS modified bitumen, which helps it to adhere to any surface and at the same time provide an efficient damp proofing layer for underground structures.

Features

- Protection membrane for bitumen based membranes
- High puncture and tear resistance.
- Good chemical resistance.
- Easy to apply. Cold applied.
- Completely non bio-degradable.

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 or drain, 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 PS** membrane and aligning the side laps. Re-roll the roll halfway and stand on the unrolled portion to prevent shifting.



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. A 75 mm selvedge is provided on one side of the membrane to give bitumen to bitumen contact on the overlaps. However, the end laps will be butt joined as the bitumen will not adhere to the polyester fleece. To provide a water tight seal and restrict any water penetration through these butt joints, 200 mm strips of **Dr. Fixit Samshield Tape TS** a double sided bitumen adhesive membrane shall be laid on that area prior to the application of the membrane. Once the bitumen strip is put in place, remove the silicone release film from the top and expose the self adhesive bitumen. The **Dr. Fixit Samshield PS** membrane shall then be applied on top of the exposed tape overlapping by 100 mm. The subsequent membrane will then be overlapped with other 100 mm of tape.

APPLICATION

Unroll only the required length and cut the piece to the desired shape. Place the membrane piece on the area to be covered and check whether they match with the profile of the marked substrate. Peel off the release film and carefully place the membrane with 100 mm overlap on the selvedge alone. The membrane shall be butt jointed at the ends using **Dr. Fixit Samshield Tape TS** tape as the under layment to provide a watertight seal.

Technical Information

PROPERTIES	VALUES	TEST STANDARDS
Thickness (mm)	2.1 ± 5%	DIN EN 1849-1
Mass per unit area, (kg/m ²)	2.2 ± 10%	DIN EN 1849-1
Top Surfacing (g/ m ²), (Geotextile)	250	
Softening Point, (°C)	>105°C	ASTM D 36
Tensile Strength (L/T), (N/ 5 cm)	L - 700 ± 150 T - 500 ± 100	DIN EN 12311-1
Elongation (L/T), (%)	30 ± 15 40 ± 20	DIN EN 12311-1
Puncture Resistance, (N)	>900	ASTM E 154
Tear Resistance (L/T), (N)	450/400 ± 50	ASTM D 5147
Peel Adhesion strength, (L/T), (N/ mm) Primed Surface Self	> 1 > 1	ASTM C 794
Hydrostatic water pressure	50 m (5 Bar) No leakage	BS EN 12390 (Part 8)

SUPPLY

Dr. Fixit Samshield PS	1 m x 10 m, WT 22 kg*
Dr. Fixit Torchshield Primer	20 Lt pail

*Approx. - Weight

Protection System

In application involving **Dr. Fixit Samshield PS** being used as a protection layer on bitumen based membranes, tapes and coatings, the base surface shall be cleaned thoroughly of all settled dust, solvents, water and other contaminants.



Handling

Dr. Fixit Samshield PS membranes are supplied in rolls of 1 m x 10 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 PS 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.

Dr. Fixit Samshield PS 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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