

Dr. Fixit Samshield PS 3500 AR



GEOTEXTILE SURFACED SBS SELF ADHESIVE ANTI ROOT WATERPROOFING & PROTECTION MEMBRANE

Description

Dr. Fixit Samshield PS 3500 AR is a SBS modified bituminous waterproofing and protection membrane. The modified bitumen is laminated onto a tough Geotextile fabric which has a high puncture, chemical and UV resistant properties with special anti-root additive (Preventol) which is root repellent is added in the blend to make it resistant to roots allowing it to be safely used under green roofs & podiums. A selvedge is provided on the overlaps, which ensures a strong bitumen to bitumen contact, thus restricting any water penetration through the laps.

Typical Applications

Dr. Fixit Samshield PS 3500 AR is used for waterproofing and protection of concrete foundations and any below ground structures. It is also suitable for use as a protection membrane for bitumen based sheet membranes, tapes and coatings on vertical surfaces, pipes and other complicated profiles from puncture and exposure to weather. It can also be used under the green podium, roofs i.e. Terrace garden & Planters. The membrane has a layer of modified bitumen, which helps it to adhere to any surface, and at the same time provide an efficient waterproofing layer. This property enables the membrane to be used as a damp-proofing membrane also.

Features

- Anti root
- Excellent adhesion on different application decks.
- Wear resistant.
- Chemical resistant.
- Completely non-biodegradable.
- Excellent puncture resistance.
- Most suitable to protect bitumen based membranes, tapes and coatings.

Packaging

1 Roll of 1 m X 10 m, WT 30 kg

Method of Application

Application procedures may vary slightly depending upon site conditions. The general recommended guidelines for the application of the self adhesive waterproofing membrane is as follows:

WATERPROOFING SYSTEM

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 **Dr. Fixit Pidicrete URP** mixed concrete repair mortar.

2 PRIMING

Apply **Dr. Fixit Torchshield Primer** (Solvent based primer) @ 4-6 m²/ltr. to a clean smooth and dry surface by brush, roller or spray. 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 promotes the adhesion between the membrane and the concrete surface. In addition to that the primer also acts as a binder for the dust particles which gets accumulated on the concrete surface even after cleaning.

3 ALIGNMENT

Start the installation of all membrane plies from the low point or drains, so 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 3500 AR** 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 in order to drive out entrapped air with a wooden press. 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. A 100 mm selvedge is provided on one side of the membrane to give a bitumen-to-bitumen contact on the overlaps. However, the end overlaps will be butt jointed 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, a 225 mm widestrip of a double sided bitumen adhesive membrane **Dr. Fixit Samshield Tape TS** 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 3500 AR** membrane will then be applied on top of the exposed **Dr. Fixit Samshield Tape TS** overlapping by 225 mm. The subsequent membrane will then be overlapped with the other 225 mm of **Dr. Fixit Samshield Tape TS**.

Protection System

Applications involving **Dr. Fixit Samshield PS 3500 AR** being used as a protection layer on bitumen based sheet membranes, tapes and coatings, the base surface shall be cleaned thoroughly of all settled dust, solvents, water and other contaminants.

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 selvages alone. The membrane shall be butt jointed at the ends using **Dr. Fixit Samshield Tape TS** as the underlayment to provide a watertight sealing.

Technical Information

PROPERTIES	STANDARD	UNIT	VALUE
Appearance			
Thickness of Membrane		mm	3.5
Weight of Membrane (As such fibrous)		gm/m ²	2952
Elongation (Longitudinal direction)	ASTM D 5147	%	47
Elongation (Transverse direction)	ASTM D 5147	%	54
Tensile Strength (Longitudinal direction)	ASTM D 5147	N/50 mm	798
Tensile Strength (Transverse direction)	ASTM D 5147	N/50 mm	571
Tear Resistance (Longitudinal direction)	ASTM D 5147	N	494
Tear Resistance (Transverse direction)	ASTM D 5147	N	409
Lap Joint Strength (Longitudinal direction)	ASTM D 5147	kg	32.5
Lap Joint Strength (Transverse direction)	ASTM D 5147	kg	31.8
Peel Adhesion Strength	ASTM D 5147	kg	10.5
UV resistance for 100 hrs	ASTM G 154		Slight change in colour
Puncture resistance	ASTM E 154	N	1304
Cold Flexibility		0°C	No cracking observed
Hydrostatic pressure @5 bar (50 m)			No leakage
Softening point	IS:1205/78	°C	110

All values given are subject to 5-20% variation



SUPPLY

Dr. Fixit Samshield PS 3500	1 m x 10 m, wt 30 kg [#]
Dr. Fixit Torchshield Primer	20 lt pail
Dr. Fixit Samshield Tape TS	225 mm x 10 m

[#] Approximate weight

Handling

Dr. Fixit Samshield PS 3500 AR are supplied in rolls of 1 m x 10 m. The rolls are packed in loose boxes to avoid any damage during transit or at site. 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 3500 AR 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. The membranes shall be protected from all sources of heat and extreme temperatures. The shelf life is 18 months if stored as per recommendations. Excessive exposure to sunlight, UV and other sources of heat will result in considerable deterioration of the product and reduce its shelf life. The shelf life is 18 months if stored as per the recommendations.

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