

Dr. Fixit Torchshield AR 3160/ 4160



APP MODIFIED ANTI ROOT WATERPROOFING MEMBRANE

Description

Dr. Fixit Torchshield AR is an APP modified bitumen torch-on, root resistant waterproofing membrane. A 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. The reinforcement of the membrane consists of a spun bond non-woven polyester fabric.

Typical Application

As opposed to traditional root resistant membranes, **Dr. Fixit Torchshield AR's** special additive means that the membrane is root resistant throughout its whole length, breadth and thickness, instead of having a polyester film acting as a barrier where the roots can penetrate through the joints, under the green roofs i.e. terrace garden and planters.

Features

Dr. Fixit Torchshield AR membranes have been engineered specifically for the waterproofing of areas to be covered with earth where root penetration may be a problem, such as roof gardens, planters below grade, garages and tunnels, etc. **Dr. Fixit Torchshield AR** polyester reinforced membranes can be used in conjunction with normal polyester reinforced membrane acting as a base sheet, and a single layer of **Dr. Fixit Torchshield AR** is sufficient as a complete root growth inhibitor and penetration barrier.

Packaging

Dr. Fixit Torchshield Membranes are available in Roll sizes of 1 m X 10 m.

Method of Application

This application procedure is a standard guideline for using the 3 & 4 mm membranes only, which may slightly vary upon the site conditions & different application areas. For details, consult the Dr. Fixit Technical Team.

1 SURFACE PREPARATION

Clean & remove dust, dirt, loose particles and unsound substrate. Make the surface smooth, even & free from local depressions with polymer-modified mortar. Priming can be done over this the next day.

2 PRIMING

Apply one coat of a bitumen based primer Dr. Fixit Torchshield Primer on cleaned & leveled surface @ 3-5 sq. m. / litre / coat.

3 APPLICATIONS

- Unroll the Dr. Fixit Torchshield Roll after application of primer.
- Align the roll correctly & re-roll it in alignment before torching.
- Use gas burner to heat substrate & underside to softening points. When the embossing disappears, roll forward & press firmly against substrate to bond from the lower end towards the higher end.
- Keep overlap margin for minimum 100 mm.
- Ensure that a constant flow of bitumen is maintained across the whole width of the Roll and that a bead of bitumen is extruded from each edge which demonstrates that a good seal has obtained. DO NOT flatten the bead with trowel.
- All angles & abutments upstands should be sealed with extra care to ensure perfect bondage. Seal the edges well into grooves & protect to seal with a polysulphide / polyurethane or a bitumastic sealant.
- Dr. Fixit Torchshield applied all over the terrace, must be finished with a coating of aluminum paint for non-foot traffic area. For foot trafficked area, overlay with concrete screed mortar.



3 APPLICATION TOOLS AND EQUIPMENT

- The tools and equipment required to apply Dr. Fixit Torchshield AR membrane include a gas torch with the gas cylinder, a knife for cutting the membrane to size, and a trowel with a rounded tip. Protective gloves and goggles are necessary when using the gas torch.

Precautions & Limitations

- Any naked flame should be kept well away from gas cylinders.
- When ignited the Dr. Fixit Torchshield should be watched at all times.
- The torch should not be rested on finished roofing.
- Extreme care should be taken when working near combustible materials or items which might be scorched by the gas flame.
- Not to be applied in extreme cold climatic conditions (below 5°C).
- Not to be applied on damp/wet areas & areas subject to moisture restoration.
- Do not overheat the Dr. Fixit Torchshield membrane i.e. avoid heating when it starts smoking.
- The moisture content on the surface should not exceed 6% to overlay the membrane.
- Use of a bitumen based primer is a must. For better results, use Dr. Fixit Torchshield Primer.

Technical Information

PROPERTIES	TYPICAL VALUES	TEST METHOD
Roll size	10 M X 1 M \pm 1%	EN-1848
Thickness	3 mm \pm 5% 4mm \pm 5%	UEAtc M.O.A.T.30
Carrier (gms /m ²)	160 gms /m ² - Polyester	UEAtc M.O.A.T.30
Unit weight kg/sq.m.	3.6 - 4.8 \pm 10%	UEAtc M.O.A.T.30
Elongation at break %	L - 30 \pm 15 T - 60 \pm 20	EN-12311-1
Tensile Strength (N/5cm)	L - 700 \pm 150 T - 450 \pm 90	EN-12311-1
Tear Strength	L - 300 \pm 50 T - 250 \pm 50	ASTM D-5147
Cold Flexibility (Up to 2°C)	No Crack	EN - 1109
Softening Point (°C)	\geq 150	EN-1110
Water absorption %	\leq 3.2	ASTM D-5147
LAP Joint Strength (N/5CM)	L - 700 \pm 150 T - 450 \pm 90	EN-12311
Resistance to Water pressure (5 bar/50M)	No leakage	UEAtc M. O. A. T. 30
Heat resistance (120°C)	No flow	UEAtc M. O. A. T. 30



Storage

- Store rolls upright in dry area.
- Store indoors in a ventilated area.
- Keep rolls protected from exposure to heat, sun, cold and moisture.
- Do not double stack rolls.
- Do not store rolls on their sides.
- Use care in the handling of the rolls.
- Do not overload the roof. Stagger the rolls across the roof. Avoid excessive weight in a concentrated area.

Shelf Life

The shelf life is 36 months if stored as per the recommendations. Excessive exposure to sunlight.

Technical support

Dr. Fixit offers comprehensive range of high performance, high quality waterproofing membrane systems. In addition Dr. Fixit also offers a technical support to specifiers and contractors, which include assistance with product selection and technical advice from staff, with unrivalled experience in the industry.

Other Products Categories available

Dr. Fixit brings you the widest range of Construction Chemicals



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