

Dr. Fixit Torchshield P 3160 / 4160



APP MODIFIED BITUMEN BASED MEMBRANES FOR WATERPROOFING

Description

Dr. Fixit Torchshield P range of polymer modified membranes are modified bitumen waterproofing membranes manufactured by saturating and coating a polyester carrier with a waterproofing compound made of a special grade of modified bitumen with APP polymers. Whereas the modifiers boost the thermal, mechanical and ageing characteristics of the membrane compound, the non woven polyester carrier establishes the mechanical characteristics as it performs as the reinforcement element that provides the membrane with its significant Tensile Strength, Tear Strength, Puncture Resistance and Elongation properties.

The upper and lower surfaces are laminated with polyethylene film.

Dr. Fixit Torchshield P membranes are ideal for use in a wide range of waterproofing applications such as foundations, basements, tunnels, roofs, car park decks and other civil works. The chemical resistance of Dr. Fixit Torchshield P makes it particularly suitable for tanking applications in areas where aggressive ground water conditions prevail.

Areas of Application

Waterproofing and damp-proof membranes for:

- Concrete roof (Sloped/Flat roofs)
- Basements and swimming pools (Externally)
- Car park and irrigation canals lining
- Concrete retaining structures
- Tunnels and subways

Features & Benefits

High strength reinforcement gives excellent resistance to puncture and stress. Dr. Fixit Torchshield P is easily torch on applied and adheres well to the substrate. The modified bitumen membranes' coating adheres well to contours, and is dimensionally stable to normal structural movements in the building.

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 APPLICATION

- 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 P 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.

Technical Information

PROPERTIES	TYPICAL VALUES	TEST METHODS
Roll size	10 M X 1 M	EN-1848
Thickness	3 mm / 4 mm	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.	3.5 - 4.5	UEAtc M.O.A.T.30
Elongation at break	L-45%, T-80% (Max)	EN-12311-1
Tensile Strength (N/5cm)	L - 700, T-450	EN-12311-1
Tear Strength	L- 300 N, T-250 N	ASTM D-5147
Cold Flexibility (Up to 2°C)	No Crack	EN - 1109
Softening Point (°C)	≥ 150	EN-1110
Water absorption	0.15	D 5147
Water Impermeability	Impermeable	EN-1928
LAP Joint Strength (N/5CM)	L -700 T- 450	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

*All values given are subject to 5-20% tolerance

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.



Packing

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

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.

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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