

Dr. Fixit Torchshield AP 3160/4160



APP MODIFIED BITUMEN BASED MEMBRANES FOR WATERPROOFING

Description

Dr. Fixit Torchshield AP 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.

The upper and lower surfaces are laminated with polyethylene film.

Typical Applications

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

High strength reinforcement gives excellent resistance to puncture and stress. **Dr. Fixit Torchshield AP** 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.

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 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 with end laps of a minimum of 150 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.



APPLICATION TOOLS AND EQUIPMENT

The tools and equipment required to apply **Dr. Fixit Torchshield AP** 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	(Guided on the lines of IS:15337/2003 Annex C)
Unit weight kg/sq.m.	3.6 - 4.8 \pm 10%	(Guided on the lines of IS:719312013)
Elongation at break %	L - 55 \pm 10 T - 60 \pm 10	(Guided on lines of ASTM D5147)
Tensile Strength (N/5cm)	L - 700 \pm 10% T - 450 \pm 10%	EN-12311-1
Tear Strength	L - 350 \pm 10% T - 300 \pm 10%	ASTM D-5147
Cold Flexibility (Up to 2°C)	No Crack	(Guided on the lines of ASTM D5147)
Softening Point (°C)	\geq 150	(Guided on lines of as such IS:1205/1978)
Water absorption %	\leq 3.2	ASTM D-5147
LAP Joint Strength (N/5CM)	L - 700 \pm 10% T - 450 \pm 10%	(Guided on lines of ASTM D5147)
Resistance to Water pressure (5 bar/50M)	No leakage	UEAtc M. O. A. T. 30
Heat resistance at (120°C) for 2 hours	No flow	(Guided on lines of ASTM D5147)



Shelf Life

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

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



Pidilite Industries Limited
Construction Chemicals Division
Ramkrishna Mandir Road, Post Box No. 17411
Andheri (E) Mumbai 400059 INDIA
Tel +91-22-2835 7000 • Fax +91-22-2835 7008
www.drfixit.co.in • info@drfixit.co.in
Dr. Fixit Advice Centre (Toll Free No.) 1800 209 5504

DISCLAIMER The product information & application details given by the company & its agents has been provided in good faith & meant to serve only as a general guideline during usage. Users are advised to carry out tests & take trials to ensure on the suitability of products meeting their requirement prior to full scale usage of our products. Since the correct identification of the problems, quality of other materials used and the on-site workmanship are factors beyond our control, there are no expressed or implied guarantee / warranty as to the results obtained. The company does not assume any liability or consequential damage for unsatisfactory results, arising from the use of our products.