

## APP/ SBS MODIFIED BITUMEN BASED MEMBRANES FOR WATERPROOFING

### Description

**Dr. Fixit Torchshield** range of polymer-modified bitumen waterproofing membranes are manufactured from rich bitumen & select polymers blended together. It is used for waterproofing of building roofs of all types, basements, foundations, swimming pools & water retaining structures because it has excellent heat resistance & cold temperature flexibility. The polymer-modified bitumen is then coated on to a dimensionally stable non-woven polyester/ fibreglass carrier to obtain high tensile strength, tear & puncture resistance. The Dr. Fixit Torchshield membranes are available in both SBS & APP modified versions.

### Specification

Meets the requirement of ASTM D 5147 standard.

### Areas of Application

- G.I. & AC Sheet Roofs.
- Industrial Roofs.
- Sloped & flat Roofs.
- Parking areas.
- Bridges & Tunnels.
- Foundation of Retaining Wall.
- Basements.
- Swimming Pools.

### Features & Benefits

- Uniformity – Torchshield is self-finished membrane provides jointless monolithic surface & provides excellent watertight solution.
- Strength – High tensile strength, tear & puncture resistance properties makes it highly durable.
- Vapour barrier – It is an impermeable membrane with less water absorption properties protects, the structure from weathering.
- Performance stability – Withstands thermal & structural stresses effectively without any fatigue, improves performance.
- Ease of application - Easy melting & fixing thus saving on usage of expensive gases. Can be laid quickly & easily.
- Eco-friendly - Safe & environment friendly.
- Durability - Does not undergo early ageing thus provides long life durable membrane.

### 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 application method for 1.5 & 2.0 mm, consult Dr. Fixit Technical Team.

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#### 1 SURFACE PREPARATION:

- Clean & remove dust, dirt, loose particles and unsound substrate. Make surface smooth, even & free from local depressions with polymer-modified mortar.

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#### 2 PRIMING

- Apply one coat of solvent based bitumen primer on cleaned & leveled surface @ 3-5 sq. mtr /ltr per coat.
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### 2 APPLICATION

- Unroll the Dr. Fixit Torchshield Roll after application of primer.
- Align the Dr. Fixit Torchshield 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.
- Heat both the overlaps & use round tipped trowel to seal overlap. Excess compound should be smoothed & pressed into seam using hot trowel.
- All angles & abutments up stands should be sealed with extra care to ensure perfect bondage. Seal the edges well into grooves & protect with a Polysulphide sealant.
- Dr. Fixit Torchshield applied all over the terrace and finished with aluminum paint for non-foot traffic area. For foot traffic area, overlay with concrete screed mortar.

### 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 bleeding should be at least 10 to 15 mm on the edges and should be finished with hot trowel.
- The moisture content on the surface should not exceed 6% to overlay the membrane.
- Use of a Solvent Bitumen based primer is a must. For better result, use the Dr. Fixit Primer.

### Technical Information

PROPERTIES	SPECIFICATION	RESULTS		
		P 3160	P 3050	E4050
Roll size, Mtr	ASTM D 5147	10 X 1	10 X 1	10 X 1
Thickness of membrane, mm		3	3	4
Roll weight, Kg		32	32	42
Carrier type & weight, Gms/m <sup>2</sup>		Polyester 160	Fibre glass 50	Fibre glass 50
Coating asphalt		APP modified	APP modified	SBS modified
Softening point, °C		150	135	115
Penetration at 25°C, dmm		15 - 25	15 -25	25 - 40
Tensile strength, L/T, N/ 5 cm	ASTM D 5147	700 / 550	300 / 200	325/250
Elongation at break, L/T, %	ASTM D 5147	40/50	2-4/2-4	3-5/3-5
Tear resistance, L/T, N	ASTM D 5147	140/160	55/70	60/60
Resistance to water pressure		No leakages	No leakages	No leakages
Water absorption, %	ASTM D 471	Max 3.2	Max 3.2	Max 3.2
Heat resistance	ASTM D 5147	No flow at 125°C	No flow at 100°C	No flow at 100°C
Cold Flexibility	ASTM D 5147	No cracking	No cracking	No cracking

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### Packaging

Range of 2, 3 & 4 mm membranes in Polyester or fibreglass base in 1 mtr X 10 mtrs roll sizes.

### Other Product Categories Available

DR. FIXIT has wide range of Waterproofing & Construction chemicals which includes,

- Waterproofing Products
- Repair Products
- Sealants
- Flooring Products
- Exterior Coating Products
- Tile Fixing Range
- Concrete Admixtures
- Grouts



### 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  
website [www.doctor-fixit.com](http://www.doctor-fixit.com) • E-mail [drfixit@pidilite.com](mailto:drfixit@pidilite.com)  
**Toll Free No.: 1800-22-5502**

**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.

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