

Dr. Fixit Torchshield

APP MODIFIED BITUMEN BASED,
TORCH APPLIED WATER PROOFING SHEET MEMBRANES

Description

Dr. Fixit Torchshield ranges 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 & 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 carrier to obtain high tensile strength, tear & Puncture resistance.

Dr. Fixit Torchshield membranes are available in APP modified versions

Area of Application

- Basements & Below Ground Structure
- Industrial Roofs
- Sloped & Flat Roofs
- parking areas
- Bridges & Tunnels
- Foundation of Retaining Wall

Features & Benefits

- Uniformity - **Dr. Fixit Torchshield** is self - finished membrane provides joistless monolithic surface & provides excellent watertight solution.
- Strength – High tensile strength, tear & puncture resistance properties make it highly durable.
- Vapor barrier – It is an impermeable membrane with less water absorption properties protects the structure from weathering.
- Performance stability – With stands 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.

1. Surface Preparation

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

2. Priming

- Apply one coat of **Dr. Fixit Primer S** on cleaned & leveled surface @ 4-5 m²/ltr. per coat.

3. 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 for ward & 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 smoothened & pressed into seam using hot trowel.

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- All angles & abutments up stands should be sealed with extra care to ensure perfect bondage. Seal the edges well into grooves & protect

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 primer is a must. For better result, use the **Dr. Fixit Primer S**.
- Do not use **Dr. Fixit Torchshield** in flood area.
- Not recommended to test with water retention.

Technical Information

Properties	Standard/Test Method	Sand	Mineral
LENGTH, (m)	UNI EN 1848-1	10.00 - 1%	10.00 - 1%
WIDTH, (m)	UNI EN 1848-1	1.00 - 1%	1.00 - 1%
STRAIGHTNESS, (mm/10 m)	UNI EN 1848-1	20 mm x 10 m	20 mm x 10 m
Mass per unit area, (kg/m ²) ± 10%	UNI EN 1848-1	-	6
Thickness (mm)	UNI EN 1849-1	3 (-0.4)	4 (-0.4)
Water tightness (B method) (Kpa)	UNI EN 1928	60 - Pass the test (Min. ≥ 10)	60- Pass the Test (Min. ≥ 10)
External fire exposure behavior	EN 13501-5	F roof	F roof
Reaction to fire (Class)	EN 13501-1	F	F
Shear resistance of joints (N/50mm)	UNI EN 12317-1	400 / 300 (-20%)	-
Water vapor transmission μ Sd (m)	UNI EN 1931 (2002)	20.000 - NPD ± 60	- 290
Tensile strength L/T (max load) (N/50mm)	UNI EN 12311-1	430 / 300 (-20%)	430 / 300 (-20%)
Breaking elongation L/T (%) (-15 absolute)	UNI EN 12311-1	30 / 30	30 / 30
Resistance to tearing L/T N	UNI EN 12310-1	130 / 130 (-30 %)	130 / 130 (-30 %)
Resistance to impact (mm)	UNI EN 12691	700	-
Static load (A method) (kg)	UNI EN 12730	10	-
Dimensional stability L/T (%)	UNI EN 1107-1 A method	± 0,3	NPD
Flexibility at low temperature °C (min)	UNI EN 1109	0	0
Flow resistance at elevated Temperature °C (minimum)	UNI EN 1110	110	110
Mineral surface adhesion %	UNI EN 12039	-	Max loss 30%
Artificial ageing through long term exposure at UV radiations combined with temperature and heat – Tensile strength (N/50mm)	UNI EN 1297 UNI EN 1296 UNI EN 12311-1	-	NPD

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Artificial ageing through long term exposure at UV radiations combined with temperature and heat – Water tightness (Class) (Kpa $\geq$ 60)	UNI EN 1297 UNI EN 1296 UNI EN 1928 A method	-	NPD
Water tightness after artificial ageing through long term exposure at high temperatures (Kpa) Min. $\geq$ 10	UNI EN 1296 UNI EN 1928	NPD	-
Water tightness determination after exposure to chemical agents (Kpa) Min. $\geq$ 10	UNI EN 1847 UNI EN 1928	NPD	-

Packing

Dr. Fixit Torchshield	Dr. Fixit Primer S
1 x 10 m. roll	20 Ltr/ pail

Health & Safety Precautions

- Wear glove during application
- General no health hazards associated with the use of **Dr. Fixit Torchshield**
- **Dr. Fixit Primer S** is a solvents base primer, that flammable, and recommend using in ventilated areas and keeping away from ignition source.

Disclaimer

The product information and the recommendations relating to the application and end-use of Dr.Fixit products, are based on Dr.Fixit's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Dr.Fixit's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Dr.Fixit reserves the right to change the properties of its products without notice, so the company does not assume liability of any legal from this product information.



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