Dr. Fixit Torchshield

APP MODIFIED BITUMEN BASED,
TORCH APPILED 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 m^2/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.

- 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

Artificial ageing through long term exposure at UV radiations combined with temperature and heat – Water tightness (Class) (Kpa ≥ 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. ≥ 10	UNI EN 1296 UNI EN 1928	NPD	-
Water tightness determination after exposure to chemical agents (Kpa) Min. ≥ 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.

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