

BITUFLEX - 1800

Torch applied SBS modified bitumen waterproofing membrane
4mm thick, reinforced with non-woven polyester mat.

DESCRIPTION

Bitulfex-1800 is torch applied membrane manufactured from SBS modified distilled bitumen, reinforced with a core of non-woven polyester fabric, rot-proof and flexible. The polyester gives the membrane its excellent mechanical properties, allows for high tensile, elongation, and tear strength. The chemical resistance of Bitulfex-1800 makes it suitable for tanking applications where aggressive ground water conditions dominate.

ADVANTAGES

- Positive barrier to water ingress and dampness
- Excellent resistance to aging and weathering
- Flexibility at low temperature
- Stability at high temperature
- High tensile strength and tear resistance
- Accommodates structural movements
- Fast, easy and clean application

SPECIFICATION

Bitulfex 1800 waterproofing membrane complies with the requirements of ASTM D 6164 Type II, Grade S.

Certificates

Manufacturing facility is certified with the ISO 9001:2015 QMS, GMP, ISO 14001 EM and ISO 45001 OH & S.



USES

To avoid damp and water leakage risk, it's recommended for:

- Concrete roof and floor slabs
- Basements
- Foundations
- Swimming Pools
- Fountains
- Drain gutters
- Bathrooms
- Reservoirs
- Bridges
- Tunnels
- Sub-grade Structures
- Car Park Deck Slabs

Technical Data

PROPERTIES	RESULTS	UNIT	TEST METHOD
Thickness	4 ± 0.2	mm	ASTM D-5147
Length	10	m	ASTM D-5147
Width	1	m	ASTM D-5147
Mass/unit area	4.2 ± 0.2	Kg/m ²	ASTM D-5147
Coating Asphalt: Type	SBS Modified Bitumen		
Softening Point (Ring & Ball)	>120	°C	ASTM D-36
Penetration	20 to 30	dmm	ASTM D-5
Tensile strength (L&T) @23°C ±2	>800/650	N/5cm	DIN 52123 UEAtcM.O.A.T.30
Elongation (L&T) @23±2	45/50	%	DIN 52123 UEAtcM.O.A.T.30
Tear Resistance(L&T) @ 23°C ±2	500/400	N	ASTMD-4073ASTM D-5147
Overlap Joint Test (L&T) @ 23 °C ±2	800/650	N/5cm	DIN52123UEAtc M.O.A.T.30 &27
Puncture Resistance	>750	N	ASTM E 154
Hydrostatic pressure @ 5-bar	No Leakage		ASTM D-5147
Heat Resistance for 2-hours	No Flow @105	°C	ASTM D-5147
Cold Flexibility	-12 to -20	°C	ASTM D-5147
Dimension Stability(L&T)	± 0.5	%	ASTM D-5147
Water Absorption	<0.14	%	ASTM D-5147

The information given in this data sheets is the average of test of various samples conducted under lab conditions. *In accordance to ASTM and UEAtc Standards results are subjected to 5 to 20% tolerance.

THICKNESS

We produce different thicknesses (3,4, 5, 6 mm) are available upon request.



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INSTRUCTION TO USE

SURFACE PREPARATION

All surfaces should be smooth and free from all harmful objects and thoroughly cleaned, from (nails, grease, dust, debris, oil, protruding elements etc.)

PRIMING

Apply liberal coat of the recommended primer and we recommend to use Bituprimer or Seal Coat D41, allow the primer coat to dry until it is tack free. Prior to the application of the membrane. All surfaces must re-primed if left for more than 24 hours.

APPLICATION

The membrane is unrolled and placed in the correct position where it is to be torched on later. Each roll must side overlap at least 10cm while slowly unrolling the membrane the surface is lightly heated by means of a propane gas torch causing surface melting and subsequent adhesion to the surface. End joints should be made with a minimum of 15cm overlap.

APPLICATION TOOLS AND EQUIPMENT

- Propane gas torch with related gas cylinder
- Knife/cutter
- Trowel with a rounded tip
- Protective gloves and goggles
- Marking aids
- Measuring tape
- Fire extinguisher



HEALTH, SAFETY AND ENVIRONMENT

All safety measures should be observed during application. Fire extinguishers should be available on site. Care should be taken with gas, and torches should not be rested on finished surface or on any materials that can be scratched by flame or hot torch. Gloves and goggles should be worn by all workers during application.

Read, understand and follow all Material Safety Data Sheets and product label information for this product prior to use.

STORAGE

- Keep the products packed in a dry place.
- Keep away from direct sunlight.
- Do not place the pallets on top of each other.
- Rolls must always be kept in a vertical position.

TECHNICAL SUPPORT

International Insulation Company (IIC) - Bitugulf technical support team consist of expert engineers offers a comprehensive service support to specifiers, end users and contractors, and on-site technical assistance.

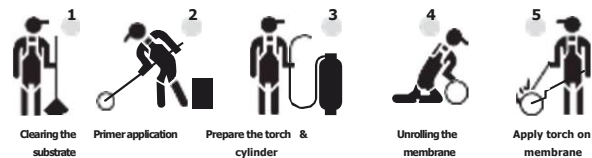
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Note: The technical data provided reflects typical properties based on laboratory tests and practical experience, subject to UEAtc tolerance levels. While we cannot guarantee performance under all conditions, further details are available upon request, with a standard variation of up to 20%.

