

# BITUFLEX - 1800

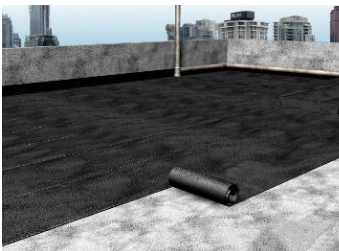
Torch applied SBS modified bitumen waterproofing membrane 4mm thick, reinforced with 180 gsm non-woven polyester mat.

## Description

Bituflex-1800 is torch applied membrane manufactured from SBS modified distilled bitumen, reinforced with a core of non-woven polyester fabric, weighing 180-gsm, 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 Bituflex-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



## 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	RESU LTS	TEST METHOD
Thickness	4 ± 0.2	mm	ASTM D-5147
Length	10	Mt.	ASTM D-5147
Width	1	Mt.	ASTM D-5147
Mass/unit area	4.2 ± 0.2	Kg/m <sup>2</sup>	ASTM D-5147
Polyester	180	g/mt <sup>2</sup>	UEAtc M.O.A.T.30
Glass Fiber		g/mt <sup>2</sup>	
Coating Asphalt : Type	SBS Modified		
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/5c m	DIN 52123 UEAtc M.O.A.T.30
Elongation (L&T) @23°C±2	45/50	%	DIN 52123 UEAtc M.O.A.T.30
Tear Resistance (L&T) @23°C±2	500/400	N	ASTM D-4073 ASTM D-5147
Overlap Joint Test (L&T) @23°C±2	800/650	N/5c m	DIN 52123 UEAtc M.O.A.T.30 &27
Load Strain Product (L/T)			CGSB-37 GP 56 M
Puncture Resistance	>750	N	ASTM E 154
Puncture Resistance			UEAtc M.O.A.T.30 &27
Hydrostatic pressure @ 5-bar	No Leakage		ASTM D-5147
Resistance to Water pressure 2 bar (29 psi)			DIN 52123
Heat Resistance for 2-hours	No Flow @ 100	°C	ASTM D-5147
Heat Resistance @ 90 °C			DIN 52123
Cold Flexibility	-12 to -20	°C	ASTM D-5147
Cold Flexibility @ - 5 °C			DIN 52123
Dimension Stability(L&T)	± 0.5	%	ASTM D-5147
Water Absorption	<0.14	%	ASTM D-5147

## Specification

The waterproofing membrane shall be a high performance torch applied 4mm thick SBS membrane, manufactured from high quality polymer. Modified bituminous compounds and reinforced with non-woven polyester. Waterproofing membrane complies with the requirements of ASTM D 6164 Type II, Grade S.

## Storage

Keep the products packed in a dry place. Away from direct sunlight. Do not place the pallets one on top of another and the rolls must always be stacked in a vertical position.

## Thickness

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

# BITUFLEX - 1800

Torch applied SBS modified bitumen waterproofing membrane 4mm thick, reinforced with 180 gsm non-woven polyester mat.

## INSTRUCTIONS FOR 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 recommended to use Bituprimer or Seal Coat D41 are allowed 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



### 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

AutoCAD facility and dedicated assistance available.

### Health, Safety and Environment

All safety measures should be observed during application. Fire extinguishers should be available at site. Care should be taken with gas, and torch 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.

### INTERNATIONAL INSULATION COMPANY (BITUGULF)

#### Factory

Western Shuaiba Industrial, Block (3), Building (90),  
Opposite of Kuwait Steel Co.

Telephone: (+965) 23262822

Fax: (+965) 23262825

Email: [info@knimco.com](mailto:info@knimco.com)

#### Showroom

Shuwaikh Industrial, Block (A), Building (139),  
Opposite to Hyundai Maintenance Center

Telephone: (+965) 24912765, 90019917

Fax: (+965) 24912776

Email: [shwrm@knimco.com](mailto:shwrm@knimco.com)

Website: [www.knimco.com](http://www.knimco.com)