

# BITUFLAME - 500

APP modified bitumen waterproofing membrane 5 mm thickness reinforced with combination of non-woven polyester and glass fiber

## DESCRIPTION

Bituflame 500 is torched applied waterproofing membrane manufactured from APP modified distilled bitumen, reinforced with combination of non-woven polyester and glass fiber mat. The polyester gives the membrane its excellent mechanical properties allows for high tensile, tear and elongation strength above 50% and the glass fiber provides dimensional stability.

## ADVANTAGES

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



## USES

Specially formulate and fabricate as a single layer waterproofing membrane it's recommended for:

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

## TECHNICAL DATA

PROPERTIES	RESULTS	TEST METHOD
Roll Length X Width Meter	8 x 1	ASTM D 5147
Thickness mm	5 (±0.2mm)	ASTM D 5147
Mass/unit area kg/m <sup>2</sup>	5	UEAtc M.O.A.T. 30
Coating Asphalt Type	APP Modified Bitumen	ASTM D 36 ASTM D 5
Softening point @ Penetration at 25@ 0.1 mm		
Reinforcement	250 60	UEAtc M.O.A.T. 30
Polyester GSM Glass Fiber GSM		
Tensile strength (L/T) @23 @ ± 2 (N/5cm)	1250/1050	DIN 52123
Tensile strength (L/T) kN/m	≥ 17.5	ASTM D 5147 ASTM D 6223 requirements
Tensile strength @18 °C (L/T) kN/m	30 20	ASTM D 5147
Elongation % (L/T) @23 @ ± 2	48/50	ASTM D 5147
Tear resistance N (L/T) @23 @ ± 2	700/500	ASTM D 4073
Lap joint strength N / 5cm (L/T)	>1200/1100	UEAtcM.O.A.T. 27 & 30
Cold flexibility at - 10 @	No cracking	ASTM D 5147
Puncture resistance	Static: L4 Dynamic: I4	UEAtc M.O.A.T. 27
Puncture resistance N	> 900	ASTM E 154
Hydrostatic pressure @ 5 bar	No leakage	ASTM D 5147
Heat resistance @ 150 @	No flowing	ASTM D 5147
Water absorption %	<3.2	ASTM D 5147
Dimension stability % (L/T)	±0.5	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.

## SPECIFICATION

Complies with the requirements of ASTM D 6223 type I & II Grade S

## THICKNESS

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

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## 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.

## 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.



## INTERNATIONAL INSULATION COMPANY (BITUGULF)

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