

# BITUFLAME - 200<sup>®</sup>

Torch applied APP modified bitumen waterproofing membrane 4mm thick reinforced with Heavy duty non-woven polyester mat

## DESCRIPTION

Bituflame 200 is torch applied membrane manufactured from APP modified distilled bitumen, reinforced with a core of heavy duty non-woven spunbonded 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 Bituflame 200 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 temperatures
- Stability at high temperatures
- High tensile strength and tear resistance
- Accommodates structural movements
- Fast, easy and clean application

## SPECIFICATION

Bituflame 200 waterproofing membrane complies with the requirements of ASTM D 6222 type II, Grade S and UEAtc MOAT 30, DIN 52133 International Standards.

Approvals / Certificates

Product Manufactured in Kuwait.

The product complies with the requirements of P.A for Industry and carries Kuwait Quality Mark. Manufacturing facility is certified with the ISO 9001:2015 QMS, GMP and ISO 14001 Environmental Management.

## USES

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

- Concrete roof and floor slabs
- Basements
- Foundations
- Swimming Pools
- Fountains
- Bathrooms

- Reservoirs
- Bridges
- Drain Gutters
- Tunnels
- Sub-grade structures
- Car Park Deck Slabs



## TECHNICAL DATA

PROPERTIES	TYPICAL RESULTS	TEST METHOD
Appearance	No defects, holes, tears, cracks or blisters	ASTM D-5147
Roll Size, m	10 x 1	ASTM D-5147
Thickness, mm	4 ± 0.2	ASTM D-5147
Mass per unit area min. (g/m <sup>2</sup> )	3905	ASTM D-5147
Bottom side coating thickness min. mm	1.0	ASTM D-5147
Tensile Strength, N/5cm (L/T) at 23 ± 2 °C	1025/800	ASTM D 5147 UEAtc M.O.A.T. 30
Lap Joint Strength, N/5cm (L/T)	1025/800	UEAtc M.O.A.T. 30 & 27
Peak load at 23 ± 2 °C (L/T) before and after heat conditioning, KN/m minimum	14	ASTM D-5147
Elongation at 23 ± 2 °C (L/T) before and after heat conditioning, at peak load, % minimum	40	ASTM D-5147
Peak load at -18 ± 2 °C (L/T), KN/m, minimum	15.8	ASTM D-5147
Elongation at -18 ± 2 °C (L/T), at peak load, % minimum	15	ASTM D-5147
Ultimate elongation at 23 ± 2 °C (L/T), % minimum	50	ASTM D-5147
Tear strength at 23 ± 2 °C N, minimum	356	ASTM D-5147
Low temperature flexibility, before and after heat conditioning in °C	0 to -7	ASTM D-5147
Dimensional stability % change, maximum	1	ASTM D-5147
Compound stability, in °C minimum	110	ASTM D-5147
Water absorption, % maximum	3.2	ASTM D-5147
Moisture content, % maximum	1	ASTM D-5147
Low temperature unrolling, in °C maximum	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.

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## THICKNESS

Membrane available in different thicknesses (3, 5, 6 mm)

## INSTRUCTION TO USE

### SURFACE CLEANING

All surfaces should be smooth, clean and dry. To make sure it is cleaned from nails, grease, dust, debris, oil, protruding elements etc.

### PRIMING

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

### APPLICATION

The membrane is unrolled and placed in the correct position. Each roll must side overlap at least 10 cm, 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 15 cm overlap. It is not recommended to use waterproofing membrane in harsh climate conditions, especially high temperature above 45 degrees Celsius.

### APPLICATION TOOLS AND EQUIPMENT

- Propane gas torch with related gas cylinder
- Knife/cutter
- Trowel with a rounded tip
- Marking Aids
- Measuring Tape
- Fire Extinguisher



## 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.

## 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.

## 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)

### Factory

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