

BITUFLAME - 2045

Torch applied APP modified bitumen waterproofing membrane 4.5mm thick, reinforced with 200 gsm non-woven polyester mat

Description

Bituflame-2045 is torch applied membrane manufactured from APP modified distilled bitumen, reinforced with a core of non-woven polyester fabric, weighing 200-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 Bituflame-2045 makes it suitable for tanking applications where aggressive ground water conditions dominate.

Advantages

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



Uses

To avoid damp & 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	TEST METHOD
Roll Size	1 x 9 (mtr)	ASTM – D 5147
Thickness	4.5 (mm)	ASTM – D 5147
Mass per unit area	4.9 (Kg/M2)	ASTM – D 5147
Reinforcement	200 (g/M2)	UEAtc. M.O.A. T.31
Coating Material	APP Modified Bitumen	As standard
Softening Point (R&B)	>155 °C	ASTM – D 36, UEAtc
Penetration at 23 ± 2 °C	12 to 25 - dmm	ASTM – D 5, UEAtc
Tensile Strength (L&T) 23 ± 2 °C	1100 (N/5cm) **	UEAtc method and DIN52123
	850 (N/5cm) **	UEAtc method and DIN52123
Elongation at break (L&T) 23 ± 2 °C	50% *	UEAtc method and DIN52123
	50% *	UEAtc method and DIN52123
Tear Resistance (L&T) 23 ± 2 °C	625 (N) *	ASTM – D 4073
	500(N) *	ASTM – D 4073
Overlap Joint Test (L&T)	1100 (N/5cm) **	UEAtc method and DIN52123
	850 (N/5cm) **	UEAtc method and DIN52123
Puncture Resistance	>900 (N) **	ASTM – E 154
Hydrostatic Pressure @ 5-bar	No Leakage	ASTM – D 5147
Water Absorption	<3.2(%)	ASTM – D 6222 M-11
Heat Resistance for 2 hours	No Flow at 135 °C	ASTM – D 5147
Cold Flexibility	No Crack @ -10 °C	ASTM – D 5147
Dimension Stability (L & T)	± 0.5 (%)	ASTM – D 5147

Specification

The waterproofing membrane shall be a high performance torch applied 4.5 mm thick APP membrane, manufactured from high quality polymer. Modified bituminous compounds and reinforced with non-woven polyester Waterproofing membrane Complies with the requirements of ASTM D 6222 type II, grade S, UEAtc MOAT 30, DIN 52133.

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

BITUFLAME - 2045

Torch applied APP modified bitumen waterproofing membrane 4.5mm thick, reinforced with 200 gsm non-woven polyester mat

INSTRUCTION TO USE

Surface Cleaning

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, Seal Coat-D41 and Aquaproof 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 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.

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 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

AutoCAD facility and dedicated assistance available.

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

Showroom

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

Telephone: (+965) 24912765, 90019917

Fax: (+965) 24912776

Email: shwrm@knimco.com

Website: www.knimco.com