

BITUFLAME - DR

Torch applied APP modified bitumen waterproofing membrane 5 mm thick reinforced with a combination of Polyester and Glass Fiber, Complies with ASTM D - 6223 Type II Grade S

DESCRIPTION

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

ADVANTAGES

- Positive barrier to water ingress and dampness
- Excellent resistance to aging and weathering
- High Flexibility at low temperatures
- Stability at high temperatures
- High tensile strength and tear resistance
- Accommodates structural movements
- Fast, easy and clean application
- Heavy duty reinforcement carriers provide anti-root characteristics.



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

SPECIFICATION

The Bituflame DR waterproofing membrane complies with the requirements of ASTM D 6223 type II, Grade S, UEAtc MOAT 30, DIN 52133

Certificates

The manufacturing facility is certified with the ISO 9001:2015 QMS, GMP, ISO 14001 E M and ISO 45001 O H & S.

Technical Data

PROPERTIES	RESULTS	UNIT	TEST METHOD
Thickness	5	mm	ASTM D-5147
Length	8	M	ASTM D-5147
Width	1	M	ASTM D-5147
Mass/unit area	5.4	Kg/m ²	ASTM D-5147
Coating Asphalt: Type	APP Modified Asphalt		
Softening Point (Ring & Ball)	>155	°C	ASTM D-36
Penetration	15 to 35	dmm	ASTM D-5
Tensile strength at 23°C±2 (L/T)	1200/1000	N/5cm	UEAtc M.O.A.T. 30,ASTM D-5147
Elongation at 23°C±2 (L/T)	45/50	%	UEAtc M.O.A.T. 30,ASTM D-5147
Tensile Strength, at -18°C±2 (L/T)	35	KN/m	ASTM D-5147
Elongation, at -18°C±2 (L/T)	3	%	ASTM D-5147
Tear Resistance, N (L/T)	700/500	N	ASTM D 4073
Lap Joint Strength, N/5cm (L/T)	Same as Membrane	N/5cm	UEAtc M.O.A.T 30 & 27
Load Strain Product: L & T	54000 50000		CGSB 37-GP 56 M
Cold Flexibility at -5 to -10°C	No Cracking	°C	UEAtc M.O.A.T 30
Heat Resistance at 135 °C	No Flowing	°C	ASTM D-5147
Resistance to Water Pressure	No Leakage		DIN 52123
Water absorption,%	< 3.2	%	ASTM D-5147
Static puncture resistance	L4 (25 kg)		UEAtc MOAT 27
Dynamic puncture resistance	I4 (4-6 mm)		UEAtc MOAT 27
Dimensional stability	< 1	%	ASTM D-5147
Moisture content	< 1	%	ASTM E 96
Resistance to aging after 2000 hrs	No deteriorations	%	ASTM D 4799

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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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 using 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
- 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.

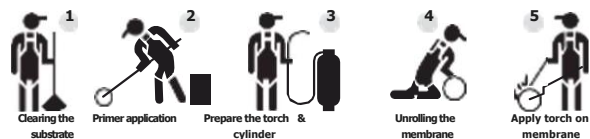
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Note: The technical data provided reflects typical properties based on laboratory tests and practical experience, subject to UEAtc tolerance levels. While we cannot guarantee performance under all conditions, further details are available upon request,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

