BITUBOND - 200

Torch applied APP modified bitumen waterproofing membrane 4mm thick reinforced with 200 gsm non-woven polyester mat

BITUGULF WATERPROOFING
شركة العوازل الدولية
International Insulation Company

Description

Bitubond-200 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 it Bitubond-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

The waterproofing membrane shall be a high performance torch applied 3, 4, 5, and 6 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.

Technical Data

PROPERTIES	RESULTS	UNIT	TEST METHOD
Reinforcement	200	GSM	UEAtc M.O.A.T. 30
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/m²	ASTM D-5147
Coating Asphalt : Type	APP Modified Asphalt	APP Modified Asphalt	APP Modified Asphalt
Softening Point (Ring & Ball)	>155	©	ASTM D-36
Penetration	12 to 25	dmm	ASTM D-5
Bottom Side Coating Thickness	> 1	mm	ASTM D-5147
Tensile strength (L&T) @23©±2	>850/650	N/5cm	DIN 52123 UEAtc M.O.A.T. 30 ASTM D 5147
Elongation (L&T) @23©±2	> 40/40	%	ASTM D-5147 UEAtc M.O.A.T. 30
Elongation @ 5% of maximum load (L&T) @23©±2	> 50/50	%	ASTM D-5147
Peak Load @ 23©±2	> 25	KN/m	ASTM D-5147
Tear resistance (L&T) @23©±2	> 550/450	N	ASTM D-4073 ASTM D-5147
Lap joint strength (L&T)	>850/650	N/5cm	UEAtc M.O.A.T. 30 &27
Load strain product: (L&T)	40/40	CGSB-37 GP 56M	50/45
Puncture Resistance	>700	N	ASTM E 154
Puncture Resistance	Static : L4 Dynamic : I4		UEAtc M.O.A.T. 27
Hydrostatic pressure @ 5-bar (72.5 psi)	No Leakage		ASTM D-5147
Resistance to Aging after 2000 hours (Accelerated Weathering Tester)	No deterioration		ASTM D 4799
Heat Resistance for 2-hours	No Flow @ 125©	©	ASTM D-5147 UEAtc M.O.A.T. 30
Cold Flexibility	0 to -5 ©	©	ASTM D-5147
Cold Flexibility @ -5 ©	No Cracking		No Cracking
Dimension Stability(L&T)	± 0.5	%	ASTM D-5147
Water absorption	<3.2	%	ASTM D-5147
Moisture content	< 0.5	%	ASTM D-5147
Appearance	No defects, holes, tears, cracks, blisters		

Uses

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

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

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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 to use Bituprimer 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 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.

Note

Various thicknesses are available upon request 3,5,6 mm.

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