

BITUBOND - 160

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

DESCRIPTION

Bitubond 160 is an APP and special polymers modified bituminous membrane with additives to perform as a general purpose waterproofing product. The multilayered membrane consists of a spun bonded non-woven polyester core, impregnated and both sides coated with a uniquely formulated polymer modified bituminous compound to meet the best performance at the economical cost.

ADVANTAGES

- Positive barrier to water ingress and dampness
- good tensile strength and tear strength.
- Flexibility at low temperatures
- Good tensile strength and tear resistance
- Accommodates structural movements
- Resistance towards salts and water-borne chemicals.
- Outstanding bonding ability and seam integrity, fast, easy and clean application.

SPECIFICATION

Bitubond 160 waterproofing membrane complies with the requirements of ASTM D 6222 type II, Grade S, UEAtc MOAT 30, DIN 52133 International Standards.

Approvals / Certificates

Product Manufactured in Kuwait.

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
- Drain Gutters
- Bathrooms

- Reservoirs
- Bridges
- Tunnels
- Sub-grade Structures
- Car Park Deck Slabs

PROPERTIES	RESULTS	UNIT	TEST METHOD
Thickness	4 ±0.2	mm	ASTM D-5147
Length	10	Meter	ASTM D-5147
Width	1	Meter	ASTM D-5147
Mass/unit area	4.2 ±0.2	Kg/m ²	ASTM D-5147
Coating Asphalt : Type	APP Modified Asphalt		
Softening Point (Ring & Ball)	>155	°C	ASTM D-36
Penetration	12 to 20	dmm	ASTM D-5
Bottom Side Coating Thickness	> 1	mm	ASTM D-5147
Tensile strength (L&T) @23±2 °C	700/600	N/5c m	DIN 52123 UEAtc M.O.A.T. 30 ASTM D 5147
Elongation (L&T) @23±2 °C	38/38	%	ASTM D-5147 UEAtc M.O.A.T. 30
Tear resistance (L&T) @23±2°C	500/400	N	ASTM D-4073 ASTM D-5147
Lap joint strength (L&T)	700/600	N/5c m	UEAtc M.O.A.T. 30 &27
Load strain product: (L&T)	26600 22800		CGSB-37 GP 56M
Puncture Resistance	600	N	ASTM E 154
Puncture Resistance	Static : I ₄ Dynamic : I ₄		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°C	°C	ASTM D-5147 UEAtc M.O.A.T. 30
Cold Flexibility	0 to -5 °C	°C	ASTM D-5147
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		



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, 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. 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.

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 others.
- 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)

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