

Description

A high performance multi-ply prefabricated self-adhering bituminous waterproof sheet membrane consisting of a highly elastic bituminous compound, internally reinforced with fiberglass and topped with a 100 micron, HDPE film. It also incorporates at bottom side with a quick release siliconized film which is removed just prior to the application to the tack coat primed substrate to ensure clean adhesion. Then immediately protect from UV light and mechanical damage during back filling by the application of the protection board.

Uses

The ideal membrane for damp proofing foundation, bridges, viaducts and tunnels, sub-grade and various building and civil works as well as industrial application.



Advantages

- 1.5 -1.6mm thick, cold applied
- Extremely flexible
- The HDPE Film provides dimensional stability, high tear strength, puncture and impact resistance to the membrane.
- Excellent resistance to aggressive soils and contaminated ground water.
- Ease, fast application
- Good adhesion to primed concrete substrate.

Technical Data

PROPERTIES	RESULTS	UNIT	TEST METHOD
Thickness	1.5 & 1.6	mm	ASTM D-5147
Length	10 & 20	Mt.	ASTM D-5147
Width	1	Mt.	ASTM D-5147
Mass/unit area	1.55 & 1.65	Kg/mt ²	ASTM D-5147
Polyester		g/ mt ²	UEAtc M.O.A.T.30
Glass fiber	60	g/ mt ²	
Coating Asphalt : Type	SBS Modified		
Tensile strength (L&T) @23°C±2	150/140 kg/cm ² for Film ASTM D-638	Kg/cm ²	ASTM D-638
Elongation (L&T) @23°C±2	220/185 for Film ASTM D-638	%	ASTM D-638
Tear resistance (L&T) @23°C±2	350/320 N/mm for film ASTM D-1004	N/mm	ASTM D-1004
Puncture Resistance	325	N	ASTM E 154
Hydrostatic Pressure @5-bar	>4 bar		ASTM D-5147
Cold Flexibility	>-16	°C	ASTM D-5147
Water Absorption	0.14	%	ASTM D-5147
Peel of Strength			
• To primed concrete	1.85	Mpa	ASTM D-1000
• To self	1.85	Mpa	ASTM D-1000

Packing

BITUFIX-G produced in 10-20 meters, special length are available upon request. The rolls are vertical palletized and shrink wrapped. The rolls can also be supplied in carton boxes. The rolls must be transported and kept in stock always in a vertical position.

Storage

Shelf life 12 months if stores in a cool dry store away from sources of heat. In the original unopened packing.

INSTRUCTIONS FOR USE

Surface Preparation

Concrete should be clean, free of voids, honeycomb coarse aggregates, and any traces of curing compound to be removed. The concrete should be minimum 8 days old.

BITUFIX - G

Cold applied self-adhesive bituminous waterproofing membrane

Application

Remove the release film by peeling back not more than 30 cm's at a time. Start to unroll the membrane it should be firmly pressed down using a rubber hand roller to ensure proper sealing, working from the center to the outer edges. This will drive out all trapped air. For subsequent rolls align the adjacent roll along the selvedge of the first roll. Re-roll the membrane. Peel back the release film from the second roll and place firmly. This should be done one meter at a time. The overlap joints should be 5 to 10 cm at the sides and 10 to 15 cm at the end. On vertical or inclined surfaces the membrane shall be laid from the lowest level upwards. Applicant temperature range 5 -50°C. In case below 15°C it is necessary to slightly warm the back of the membrane to have well and ease adhesion to substrate. In cold conditions the membrane should be stored at temperature above 20°C prior to application.

Priming

Coat the surface with Solvent Base Bitumen Primer and allow to dry overnight. All surfaces must be re-primed if left for more than 24 hours prior to the application.

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.



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