

GENERAL DESCRIPTION

BETAGUM is the standard roofing and waterproofing membrane, reinforced either with a core of non woven polyester of 200g/m² nominal weight (referred to as P) or a 50g/m² fiberglass fleece (referred to as F). It is the recommended roofing membrane, but can be useful for another variety of applications among them; Large slabs, terraces, bathrooms, wet areas, foundations, basements, tanking and others.

SPECIAL FEATURES

- Positive barrier to water and damp ness.
- Excellent resistance to ageing and atmospheric agents.
- Remains flexible even in cool weather.
- Maintains shape stability at high temperatures.
- Accommodates structural movements.
- May be torched directly over old shingles or old bituminous membranes.
- The membrane comes in various types according to the surface top:
 - SAND: The top surface is covered with fine sand.
 - PBS: The top surface is covered with a thin easy torched Poly-ethylene film.
 - SL: The top surface is covered with reflective slates either in natural gray or pigmented in various colors.
 - The bottom surface is covered with a thin easy torched Poly-Ethylene film.
- Resistant to water-borne chemical attack.

COATING MIXTURE OF THE MEMBRANE

The waterproofing capability is provided by the coating mix of the BETAGUM membrane.

The reinforcement is impregnated with this mix and then coated to factory regulated thickness from 2mm to 5mm depending on reinforcement and client requirement. The mix is made up of bitumen, modified with Amorphous Poly-olefins, thermoplastic resins and stabilizers giving the membrane its excellent resistance to atmospheric agents and ageing, maintaining shape stability at high temperatures, improving adhesion strength and making the membrane easy to apply saving on time and labor.

PACKING

BETAGUM is manufactured in a standard size of 1x10 m for thickness of 3mm, 4mm and 5mm and 1 x20 m for 2mm, however special length can be done on request. All rolls are sold in pallets and covered with a shrink-wrap.

TOOLS & EQUIPMENT

The application of the BETAGUM membrane requires very limited tools like propane gas torches and cylinder a knife for cutting the membranes to size and a trowel with rounded end.

METHOD OF APPLICATION

The application of the BETAGUM membrane requires very limited tools like propane gas torches and cylinder a knife for cutting the membranes to size and a trowel with rounded end. Various torch heads are sold separately by DWI on request. is both easy and quick. For applications on concrete, tiles or any other porous surface, coat the substrate with ADVAPRIME (solvent based bituminous primer according to ASTM D41) at the rate of 4 - 5 m² /litre. Allow this coating to dry thoroughly. In time of high humidity we recommend it should be left overnight. The application of the BETAGUM membrane requires very limited tools like propane gas torches and cylinder a knife for cutting the membranes to size and a trowel with rounded end. Various torch heads are sold separately by DWI on request. T should fires(' be unrolled and positioned correctly. Each roll should overlap the adjacent roll by 10cm. Once the roll has been positioned correctly, the membrane should be rolled up again, taking care not to change its orientation. Using left to right movements, heat the lower surface of the membrane with a propane gas torch. This will cause slight surface melting and the molten bitumen will adhere to the surface. You then torch on the side overlap to the recommended size of 100mm. Continue the above method of consecutive rolls remembering end-laps must be minimum 100mm. The slated membranes will come with a factory installed 100mm side selvedge. Inspection of lap joints must be carried out to ensure total adhesion.

TECHNICAL DATA

BETAGUM products are tested at random intervals by independent laboratories to international standards and the results of these tests are available on request. In addition, each batch manufactured is subject to strict quality control procedures to ensure it meets appropriate and applicable standards and/or norms.

Tests Performed – As per ASTM	Procedure	Units	Tolerance	Value
Length		m	<-1%	10
Width		m	<-1%	1
Thickness	ASTM D5147	mm	-0.2mm	5.00
Tensile Properties : Max Tensile Force-Long	ASTM D5147	N/50mm	-20%	1000
-Trans	ASTM D5147	N/50mm	-20%	750
Tensile Properties : Elongation -Long	ASTM D5147	%	-15	50
-Trans	ASTM D5147	%	-15	55
Resistance to Tearing -Long	ASTM D5147	N	min	550
-Trans	ASTM D5147	N	min	450
Lap Joint Strength -Long	ASTM D5147	N/5cm	-20%	1000
-Trans	ASTM D5147	N/5cm	-20%	750
Flexibility at Low Temperature	ASTM D5147	C	min	-5
Dimensional Stability at 80C -Long	ASTM D5147	%	mlv	-0.5
-Trans	ASTM D5147	%	mlv	-0.5
Water Absorption (n/a slate)	ASTM D5147	%	mlv	<0.15

Tests Performed – As per CE	Procedure	Units	Tolerance	Value
Visible Defects	EN 1850-1	No./m ²	0	0
Length	EN 1848-1	m	<-1%	10
Width	EN 1848-1	m	<-1%	1
Straightness	EN 1848-1	mm	<20mm	Pass
Mass Per Unit Area	EN 1849-1	kg/m ²	+/- 10%	5.6
Thickness	EN 1849-1	mm	-0.2mm	5
Water Tightness to Liquid Water : Method B	EN 1928-1	mlv	>400kPa	Pass
Tensile Properties : Max Tensile Force-Long	EN 12311-1	N/5cm	-20%	1000
-Trans	EN 12311-1	N/5cm	-20%	750
Tensile Properties : Elongation -Long	EN 12311-1	%	-15	50
-Trans	EN 12311-1	%	-15	55
Resistance to Tearing (Nail Shank) -Long	EN 12310-1	N	min	230
-Trans	EN 12310-1	N	min	240
Shear Resistance of Joint -Long	EN 12317-1	N/5cm	-20%	1000
-Trans	EN 12317-1	N/5cm	-20%	750
Resistance to Static Loading (method A)	EN 12730	kg	min	25
Resistance to Impact	EN 12691	mm	mlv	>700
Flexibility at Low Temperature	EN 1109	C	min	-5
Dimensional Stability -Long	EN1107-1	%	max	-0.5
Flow Resistance less than 2mm	EN1110	C	mlv	100
Reaction to Fire	EN 13501-1		Euroclass	F



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