

DWI

DERMABIT®
WATERPROOFING IND.

ECOGUM SP

APP MODIFIED BITUMINOUS MEMBRANE WITH 200 G/M2 POLYESTER



GENERAL DESCRIPTION

ECOGUM SP is a quality 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 suitable for a variety of applications among them; roofs, large slabs, terraces, bathrooms, wet areas, foundations, basements, tanking and others.

SPECIAL FEATURES

- Positive barrier to water and dampness.
- Excellent resistance to ageing and atmospheric agents.
- Remains flexible even in cool weather.
- Maintains shape stability at high temperatures.
- Reasonably accommodates structural movements.
- Withstands thermal shock and can be left exposed if coated with a reflective coat.
- 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 MEMBRANE

The waterproofing capability is provided by the coating mix of the **ECOGUM SP** membrane. The reinforcement is impregnated with this mix and then coated to factory regulated thickness. 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

ECOGUM SP is manufactured in a standard size of 1x10m for thickness of 3mm and 4mm and 1x20m for 2mm, however special length can be done on request. All rolls are sold on pallets and covered with a shrink-wrap.

TOOLS & EQUIPMENT

The application of the **ECOGUM SP** 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.

METHOD OF APPLICATION

The application of **ECOGUM SP** is both easy and quick.

For applications on concrete, tiles or any other porous surface, coat the substrate with **DERMAPRIMER** (solvent based bituminous primer according to **ASTMD41**) at the rate of 4-5m²/litre. Allow this coating to dry thoroughly. In time of high humidity we recommend it should be left overnight.

The **ECOGUM SP** should first 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 for consecutive rolls remembering end-laps must be minimum 150mm.

Inspection of lap joints must be carried out to ensure total adhesion.

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DWI 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	4.00
Penetration of Coating Mixture at 25 Deg C.	ASTM D5147	dmm	mlv	12-20
Tensile Properties : Max Tensile Force-Long	ASTM D5147	N/50mm	-20%	840
-Trans	ASTM D5147	N/50mm	-20%	630
Tensile Properties : Elongation	ASTM D5147	%	-15	45
-Long	ASTM D5147	%	-15	45
-Trans	ASTM D5147	%	-15	45
Resistance to Tearing	ASTM D5147	N	min	600
-Long	ASTM D5147	N	min	450
-Trans	ASTM D5147	N	min	450
Lap Joint Strength	ASTM D5147	N/5cm	-20%	840
-Long	ASTM D5147	N/5cm	-20%	630
-Trans	ASTM D5147	N/5cm	-20%	630
Flexibility at Low Temperature	ASTM D5147	C	min	-5°
Dimensional Stability at 80C	ASTM D5147	%	mlv	-0.5
-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				
Visible Defects	EN 1850-1	No./m ²	0	0
Length	EN 1848-1	m	<-1%	10
Width	EN 1848-1	m	<-1%	1.00
Straightness	EN 1848-1	mm	<20mm	Pass
Mass Per Unit Area	EN 1849-1	kg/m ²	+/- 10%	4.70
Thickness	EN 1849-1	mm	-0.2mm	4.00
Water Tightness to Liquid Water	EN 1928-1	mlv	>60kPa	Pass
Tensile Properties : Max Tensile Force-Long	EN 12311-1	N/5cm	-20%	840
-Trans	EN 12311-1	N/5cm	-20%	630
Tensile Properties : Elongation	EN 12311-1	%	-15	45
-Long	EN 12311-1	%	-15	45
-Trans	EN 12311-1	%	-15	45
Resistance to Tearing (Nail Shank)	EN 12310-1	N	min	190
-Long	EN 12310-1	N	min	180
-Trans	EN 12310-1	N	min	180
Shear Resistance of Joint	EN 12317-1	N/5cm	-20%	840
-Long	EN 12317-1	N/5cm	-20%	630
-Trans	EN 12317-1	N/5cm	-20%	630
Resistance to Static Loading (method A)	EN 12730	kg	min	20
Resistance to Impact	EN 12691	mm	mlv	>300
Flexibility at Low Temperature	EN 1109	C	min	-5°
Dimensional Stability	EN1107-1	%	max	-0.5
-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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