



ECOGUM

THE NEW GENERATION

APP MODIFIED BITUMINOUS MEMBRANE



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GENERAL

ECOGUM is a quality APP modified Bituminous Membrane, developed using the most up-to-date technology that enables it to perform over time and give long lasting waterproofing characteristics.

FEATURES OF THE ECOGUM MEMBRANE

- Positive barrier to water & vapour
- Excellent resistance to atmospheric agents
- High flexibility at low temperatures
- Withstands thermal shocks.
- Easy application.
- General purpose membrane for various waterproofing jobs; roofing wet areas, basements, reroofing etc.
- Resistant to water borne chemical attack

REINFORCEMENT CORE & COATING MIXTURE

ECOGUM Roofing and Waterproofing membrane is manufactured with either 50 gm/m² fibreglass or with 160 gm/m² non-woven polyester reinforcements that are impregnated and coated with a mixture of APP Polymer modified bitumen.

This mixture gives the membrane its excellent properties of resistance to

atmospheric agents, and to ageing. It ensures shape stability at high temperatures, and facilitates the ease of application and adhesion.

THICKNESS, SIZE & SURFACE FINISH

ECOGUM Roofing and Waterproofing Membranes are available in a variety of thicknesses to suit all application requirements. Standard roll size is 1 x 10 meter lengths (ECOGUM 2F basesheet is available in 1m x 20m rolls). The upper surface can be finished in Sand, Slate or PBS (Polyethylene Both Sides). The lower surface has a Polyethylene film which melts when torched.

APPLICATION METHODS

The application of **ECOGUM** Roofing and Waterproofing membranes is easy and quick.

"TORCH-ON" APPLICATION : After having mopped the surface to be waterproofed with 200-300 grms/m² of **DERMABIT PRIMER** (ASTM D41), allow a drying time up to 24 hours.

The membrane is unrolled and placed in the position where it has to be torched on later. The membrane is then rerolled without changing the given orientation and unrolled again, while heating the lower surface with a propane gas torch,

causing surface melting and subsequent adhesion to the primed surface.

Membranes should overlap each other by at least 10cms at the side lap and 15cms at the end laps. Inspection of lap joints must be carried out to ensure total adhesion. Smooth out seams with a rounded trowel.

HOT "MOP ON" APPLICATION: The hot primer (ASTM D 312 Type III) is first mopped on or poured directly from the kettle on to the laying surface at a rate of 800-1000 grms/m². If the slope of the roof exceeds 5%, use ASTM D 312 Type IV. The temperature of the hot primer to be mopped should be around 111°C (232°F). The membrane is then positioned and unrolled immediately over the hot primed surface. While unrolling the membrane, hot primer is poured at the seams to ensure a properly sealed over-lap joint with a slight flow of primer at all the seams. Subsequent rolls are set alongside the first, overlapping by a 10cm minimum at the side lap and 15 cms at the end laps.

MECHANICAL FIXING :

ECOGUM membranes may also be applied mechanically by nailing the membrane to the deck, using special fasteners.

TECHNICAL DATA

DERMABIT 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.

ECOGUM

PROPERTIES		VALUES					METHOD OF TESTING
		ECOGUM 2F	ECOGUM 3F	ECOGUM 4F	ECOGUM 3P	ECOGUM 4P	
Thickness (nominal)		2mm	3mm	4mm	3mm	4mm	UEAtc
Membrane weight		2.3 Kg/m ²	3.4 Kg/m ²	4.5 Kg/m ²	3.5 Kg/m ²	4.6 Kg/m ²	
Softening Point (R+B) of Coating Mixture		155 °C					ASTM D36
Penetration of coating mixture at 25°C		12-20 dmm					ASTM D5
*Flexibility at low temperature		0 to -4°C					UEAtc
Service Ambient Temperature		-10°C to 100°C					
TENSILE STRENGTH	Longitudinal	300 N/5 cm			700 N/5 cm		ASTM D 5147
	Transverse	200 N/5cm			500 N/5cm		
ELONGATION	Longitudinal	3.8 %			40 %		ASTM D 5147
	Transverse	3.9 %			40 %		
TEAR RESISTANCE	Longitudinal	400 N			600 N		ASTM D 5147
	Transverse	300 N			450 N		
Water Absorption		Less than 0.15 %					ASTM D 5147
Resistance to water pressure (24 hr)		> 60 kpa					UEAtc
Resistance to Thermal Ageing		Complies					UEAtc
Resistance to Ageing due to UV-Radiation		Complies					UEAtc
Water Vapour Permeability		< 0.2 g / 24 hr/m ²					ASTM E 96
DERMABIT membranes are resistant to chlorides, sulphates and phosphates found in ground water.							

*Flexibility at low temperature can be altered depending on prevailing climatic conditions or client's request.

PACKING : ECOGUM 2F 23 Rolls per pallet (1 X 20m)
 ECOGUM 3P/3F 30 Rolls per pallet (1 x 10m)
 ECOGUM 4P/4F 23 Rolls per pallet (1 x 10m)

The above data are average figures obtained from the tests of various samples and are subject to the tolerances defined in the specified test methods.

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