



WATERPROOFING SYSTEMS

GECO BASE

Polyester bitumen coated membrane



DESCRIPTION

Prefabricated modified polymer-bitumen membrane composed of distilled bitumen and elasto-plastomers (APP) reinforced with a woven non woven single strand composite polyester fabric. The upper face of the membrane is coated with the waterproofing mass and protected with a PE film, while the lower face is the exposed reinforcement. The woven non woven single strand composite polyester reinforcement offers excellent static puncture and tear strength resistance. The characteristics of the membranes in the GECO BASE range allow them to be used with success as a regularisation layer, as a first layer mechanically fixed to wooden roofs, as a vapour diffusion layer, as a separation layer between bituminous membranes and synthetic ones as well as in several other applications. In virtue of the particular formulation the membranes of the GECO BASE range are compatible with all the GECO membranes, both APP & SBS.

METHODS OF APPLICATION

The application of the membrane is generally obtained by mechanical fixing using large headed nails on wooden roofs. As an alternative cold adhesive glues can be used and on non heat sensitive substrates the use of oxidized bitumen.

Technical Characteristics	Measure units	Reference norm	P			Tolerance
Type of compound			APP			
Type of reinforcement			Polyester			
Upper face finish			PE film			
Lower face finish			Polyester			
Length	m	EN 1848-1	25 -1%	25 -1%	20 -1%	
Width	m	EN 1848-1	1 -1%			
Mass	kg/m ²	EN 1849-1	1,2	1,5	2	±10%
Cold flexibility	°C	EN 1109	NPD			
Tensile strength L/T	N/5 cm	EN 12311-1	500/400			-20%
Elongation at break L/T	%	EN 12311-1	35/35			-15
Nail tear strength L/T	N	EN 12310-1	140/140			-30%
Fire resistance		EN 13501-5	F ROOF			
Fire reaction		EN 13501-1	F			
Watertightness	kPa	EN 1928	60			

NPD = No Performance Declared in accordance with the EU Construction Products Directive.

TECHNICAL DATA SHEET



APPLICATION

GECO BASE AS A SEPARATION AND SLIP SHEET

- GECO BASE is used as a separation layer, reducing or eliminating the physical-mechanical and/or chemical restraints between various elements of the waterproofing system. GECO BASE can also be used as a slip sheet as it prevents movement and tension from being transferred between adjoining layers.

GECO BASE AS A SEPARATION AND DISTRIBUTION LAYER ON RE-FURBISHMENT

- GECO BASE used over old waterproofing systems, acts as a separation and distribution layer as well as a base for the mechanical fixings, guaranteeing as well an excellent bond of the bituminous waterproof membrane used for the refurbishment.

GECO BASE AS A PROTECTIVE ELEMENT AND DISTRIBUTION ON WOODEN ROOFS

- GECO BASE is used over wooden decks and/or heat sensitive materials whereas it is used as a protective layer from the use of open flame; GECO BASE must be applied loose laid and mechanically fixed with appropriate nails. When used over concrete substrates it is necessary to use an adequate mechanical fixing.


RECOMMENDATIONS

To best use the technical characteristics of bituminous membranes and guarantee the maximum performance and durability of the jobs where they are used, some simple but fundamental rules must be respected.

- The rolls are to be stored in an upright position, preferably indoors in a dry and ventilated area, away from heat sources and avoiding to stack them one on top of the other to avoid possible deformations which may compromise the application. When storing with original packaging, pallets should not be stacked.
- The rolls shall be kept in a warm or heated storage area during application, should the workability of the material deteriorate or become stiff and difficult to install during application, these should be returned to the heated storage area and substituted with new rolls. The rolls that are temporarily stored on the roof before application, shall be kept elevated by being left on their own pallets and shall be covered and protected from the weather.
- To guarantee impermeability GECO BASE must always be used with another waterproofing membrane reinforced with polyester or dual reinforced and applied fully bonded.
- The application surface must be smooth dry & clean.
- The application surface must not have any depressions to avoid the risk of ponding water, the slope must be at least 1.5% on concrete decks and 3% for steel or wooden ones, this to guarantee a proper run off of rainwater.**
- In situations of application on vertical surfaces superior to 1.5 %, apply suitable mechanical fixings to the head laps.
- The application must be done at temperature higher than +5°C.
- The application must be interrupted in adverse weather conditions (high humidity, rain, etc.).
- The pallets on which the rolls are packaged are intended for normal warehouse use.
- The materials on stock should be rotated following a first in first out rotation.
- For information concerning storage and application of Geco membranes, please refer to the "Installation manual".

FIELDS OF USE

EN13707 CONTINUOUS ROOFS 0958-CPR-2045/1

CERTIFICATION 	N. LAYERS			METHOD OF APPLICATION						TYPE OF APPLICATION			TYPE			
	SINGLE LAYER	DOUBLE LAYER	MULTILAYER	TORCH	HOT AIR	MIXED (TORCH/AIR)	COLD BOND GLUE	MECHANICAL FIXING	THERMOADHESIVE / SELF-ADHESIVE	FULLY BONDED	PARTIALLY BONDED	LOOSE LAID	COMPLEMENTARY LAYER	TOP LAYER	HEAVY PROTECTION	ANTI-ROOT
GECO BASE P 1,2 KG/M ²		X	X					X				X	X			
GECO BASE P 1,5 KG/M ²		X	X					X				X	X			
GECO BASE P 2 KG/M ²		X	X					X				X	X			