POLIGUM RE-ROOFING

Composite polymer bitumen membrane

POLIGUM RE-ROOFING is a prefabricated modified composite polymer-bitumen waterproofing membrane composed of distilled bitumen and differentiated waterproofing masses, specifically designed for use over old bituminous waterproofing membranes self-protected with mineral slates. The upper face compound is composed of distilled bitumen and elasto-plastomers while the lower face compound is composed of distilled bitumen and special polymers which provide particular characteristics of adhesion & workability. A special waterproofing mass is used to bond the upper & lower compounds. POLIGUM RE-ROOFING is reinforced with a woven non woven single strand composite polyester fabric, with very good mechanical characteristics and exceptional dimensional stability.

USES

POLIGUM RE-ROOFING is designed specifically for restoring and renovating old membranes self-protected with mineral slate, given its exceptional workability and adhesion to the mineral granules.

Reinforcement: Single strand polyester

Compound: Elasto-plastomeric polymer bitumen APP

Upper finish: Mineral Slate *

Lower finish: PE Film

Intended use:

EN 13707 Continuous Roofs (certificate no. CE0958-UKCA0120): Top layer

Application method: Torch / Mechanical fixing

* Mineral self-protected products may undergo color tone variations due to the time and length of storage. Exposure to atmospheric conditions, after application, will tend to uniform the color after a few months. The change in color tone cannot therefore be contested and / or complained of as it is a natural phenomenon that the slate manufacturer himself cannot guarantee.

METHODS OF APPLICATION

The application of the membrane is generally obtained by heat, using either a gas or hot air torch making sure to provide for side laps of 10 cm and head laps of 15 cm. Considering the particular areas of usage the product must be applied fully bonded to the existing membrane, the same must also be done for those areas such as the perimeter, verticals and change of slope.

APPLICATION

- ✓ Clean the application surface.
- ✓ Apply by gas or hot air torch a 25 cm strip of woven non woven polyester reinforced membrane along all the vertical up stands.
- ✓ Position the membrane always starting from the lowest point, in order to have all the overlaps with the slope.
- ✓ Apply and position the membranes staggered to avoid creating areas where the membrane overlap against the slope and in the direction of the drains.
- ✓ After having positioned the roll, re-roll the material for half of its length and begin application; repeat the same operation for the remaining half of the roll. (Draw. N.1)
- ✓ It is necessary to heat the entire surface, except the overlaps, of the lower face to obtain a full adhesion to the application surface.
- ✓ During the application by torch, the material needs to be heated to a point where the compound starts to flow in such a way that it fully saturates the application surface. The melted flow of compound obtained by torching is the R mass. (Draw. N.2)
- ✓ Torch the side laps (10 cm) and head laps (15 cm) with a torch for overlaps. During this stage the overlaps should be pressed by using a roller (15 kg) from which a bead of compound should flow. Do not iron the overlaps. (Draw. N.3)
- ✓ Apply the vertical membrane sheet having the same characteristics of the waterproofing membrane and dimensions equal to the width of the roll, making sure that it overlaps the horizontal one by at least 10 cm, heating it with a gas torch and squeezing it with a trowel until a bead of compound appears from underneath. (Draw. N.4)
- ✓ The height of the vertical must be equivalent or superior to the finished surface by at least 15 cm.
- ✓ Verticals higher than 20 cm must be done with ITER FORTE BIARMATO 4 mm or ITER NORD PA 5,0/5,5 kg/m^2 or alternatively with a PA 4 mm on selvedge membrane.

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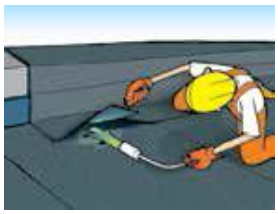

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Technical Data Sheet

POLIGUM RE-ROOFING

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Technical Data Sheet

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, indoors in a dry and ventilated area, away from heat sources. Absolutely avoid the stacking of rolls and pallets for storage or transport to avoid possible deformations which may compromise a perfect installation. It is recommended to store the product at temperatures above 0°C.
- 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.
- The application surface must be smooth dry & clean.
- In situations of application on vertical surfaces superior to 2 meters or on very sloped substrates, apply suitable mechanical fixings to the head and side laps, after which they will be sealed.
- 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.

TECHNICAL SPECIFICATIONS

CHARACTERISTICS	TESTING METHOD	M.U.	TOLERANCE	VALUE
Length/Width	EN 1848-1	m	MLV ≥	8,0 / 1,0
Visible defects	EN 1850-1	visual		None
Mass	EN 1849-1	kg/m^2	MDV ±10%	5,5
Straightness	EN 1848-1	mm/10 m	MLV	< 20
Watertightness at 60 kPa	EN 1928-B	kPa	MLV ≥	Pass
External Fire Performance	EN 13501-5			F ROOF
Reaction to fire	EN 13501-1	class		NPD
Maximum tensile strength (L/T)	EN 12311-1	N/50 mm	MDV -20% +50%	850/650
Elongation (L/T)	EN 12311-1	%	MDV -15 +30	40/40
Resistance to tearing (L/T)	EN 12310-1	N	MDV -20% +50%	200/200
Dimensional stability	EN 1107-1	%	MLV ≤	0,3
Peel resistance of joints (L/T)	EN 12316-1	N/50 mm	MDV ±20N	NPD/NPD
Cold flexibility	EN 1109	°C	MLV ≤	-10
Cold flexibility after ageing	EN 1296	°C	MDV +15°C	-5
Flow resistance	EN 1110	°C	MLV ≥	120
Flow resistance after ageing	EN 1296	°C	MDV -10°C	NPD
Joint strength (shear resistance) (L/T)	EN 12317-1	N/50 mm	MDV -20% +50%	750/550
Resistance to impact	EN 12691-B	mm	MLV ≥	1500
Resistance to static loading	EN 12730-A	Kg	MLV ≥	20
Adhesion of granules	EN 12039	%	MLV ≤	30
Root resistance	EN 13948			NPD

MDV : value declared by the manufacturer associated with a declared tolerance.
MLV : limit value, minimum or maximum, declared by the manufacturer.
NPD : No Performance Declared in accordance with the EU Construction Products Directive.

PACKAGING

PRODUCT	ROLL SIZE	WEIGHT KG/M²	THICKNESS MM	SQUARE METRES PER PALLET
Poligum Re-roofing	8 m x 1 m	5,5	-	160

The waterproofing membrane based on distilled bitumen and polymers, as shown in this data sheet does not require the issue of a MSDS, because it does not contain dangerous substances. The information data sheet for the proper use of products is available. The technical data given is based on average values obtained during production. We reserve the rights to change or modify the nominal values without prior notice or advice. The information contained in this data sheet are based on our experience. We cannot take any responsibility for a possible incorrect use of the products. The customer has to choose under their own responsibility a product fit for the intended use.
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