

EVO 20 MINERAL OVERLAY IS A SINGLE LAYER TORCH APPLIED MINERAL FINISHED MEMBRANE THAT HAS BEEN DESIGNED TO BE USED FOR REROOFING EXISTING BITUMINOUS SYSTEMS ESPECIALLY THOSE HAVING A MINERAL FINISH AND ASPHALT

1. DESCRIPTION

Prefabricated modified composite polymer-bitumen waterproofing membrane composed of distilled bitumen and differentiated waterproofing masses, specifically designed for use over old bituminous and asphalt waterproofing membranes.

The upper face compound is composed of distilled bitumen and elasto-plastomeric polyolefins (APAO) 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 and lower compounds. EVO 20 is reinforced with a woven non woven single strand composite polyester fabric, with excellent mechanical characteristics and exceptional dimensional stability.

EVO 20 is self-protected with mineral slates which reduce heat absorption and improve the durability of the membrane. EVO 20 has a 10cm side selvedge and a 15cm head selvedge which promotes the adhesion between the various sheets.

2. METHODS OF APPLICATION

The application of the membrane is generally by heat, using either a gas or hot air torch, making sure to provide for side laps of 10cm and head laps of 15cm.

Considering the particular areas of usage the product must be applied fully bonded to the existing membrane, the same must also be done for areas including the perimeter, verticals and change of slope.

3. AREAS OF USE

EVO 20 is specifically designed for use as a re-furbishment layer over existing old bituminous waterproofing membranes, especially those with a mineral slate finish and asphalt, utilising the products excellent characteristics of adhesion and workability. EVO 20 is compatible and can be applied with both APP & SBS membranes.

4. TECHNICAL DATA

Technical Data	Reference Norm	Characteristics	Tolerances
Reinforcement		Single Strand Polyester	
Finish: Upper face		Mineral	
Finish: Lower face		Polyethylene Film	
Roll Length	EN 1848-1	7.5mtr	- 1%
Roll Width	EN 1848 -1	1mtr	- 1%
Nominal Weight	EN 1849 -1	5.5kg/mtr ²	- 10%
Tensile Strength	EN 12311-1		
Longitudinal / Transversal		700 / 600 (N/5cm)	- 20%
Ultimate Elongation			
Longitudinal / Transversal		35 / 35 %	- 15
Tear Strength L/T	EN 12310-1	160 / 160 N	- 30
Static puncture resistance	EN 12730	15kg	min
Dynamic puncture resistance	EN 12691	1000mm	min
Cold Flexibility	EN 1109	- 20°C	max
Dimensional Stability	EN 1107-1	- 0.3%	max
Watertightness	EN 1928	60 Kpa	min



5. GUARANTEED DURABILITY

Fire Safety

When incorporated in a Euro Polymers Specification, and as described in Table A5 of part B of the fire safety in buildings regulations 1991, EVO 20 membrane is un-restricted in its use in relation to fire.

Production

The processes used in the production of Evolution Mineral Overlay are in accordance with M. O. A. T. No 31 1984. The whole process has been independently assessed to meet ISO9001.

Compatibility

Evo 20 is compatible with all products that are normally found on a roofing site. The product should not be brought into contact with any hydro-carbon solvents such as creosote and paraffin.

6. APPLICATION & RECOMMENDATIONS

- Clean the application surface.
- Apply by gas or hot air torch a 25cm strip 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 the position of the membrane staggered to avoid creating areas where the membrane overlap against the slope and in the direction of the drains.
- Cut the corners of the membrane which will be applied under the next sheet at a 45 angle.
- After having positioned the roll, re-roll the material for half its length and begin application; repeat the same operation for the remaining half of the roll.
- 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 is obtained by torching is the R mass.
- Torch side laps (10cm) and head laps (15cm) with a torch for overlaps, during this stage the overlaps should be pressed by using a roller (15kg) from which a bead of compound should flow. Do not iron the overlaps.
- Apply the membrane on the verticals making sure that they overlap on the horizontal surface at least 10cm, make sure that they are fully bonded using a trowel to squeeze a bead of compound from underneath.
- The height for the vertical must be or equivalent or greater than the finished surface by at least 15cm.

7. GUARANTEES AND WARRANTIES

Euro Polymers offer a full range of guarantees and warranties

AWM Protector, Pathfinder and Pioneer warranties offer varying levels of term and cover.

Please contact Euro Polymers for further details.