CE

Nuova Meridiana

ARTICA MINERAL PL

SELF-ADHESIVE POLYMER-BITUMEN BPP PREFABRICATED WATERPROOFING MEMBRANE

COMPOUND

The ARTICA membranes are manufactured with two distinct types of polymer-bitumen compound. The compound making up the waterproofing mass of the outside surface, with a flexibility of -15 ° C, is made up of a mix of empty residual distilled bitumen modified with elastoplastomeric polymers based on atactic polypropylene, isotactic polypropylene, synthetic compatibilizers and stabilizing inert fillers. The compound is UV-resistant and thermally stable. The adhesive mass of the inside surface is made up of a mix of Venezuelan empty residual distilled bitumen modified with thermoplastic rubber based on radial, linear, isoprenic elastomers, hydrocarbon resins and synthetic compatibilizers that make it extremely flexible at low temperatures reaching -25 ° C and stick by simple pressure.

REINFORCEMENT

The reinforcement used for ARTICA MINERAL PL membranes is made up of a non-woven polyester mat stabilized with glass fibres, which gives to the product very good mechanical and breaking elongation characteristics, as well as very good dimensional stability. Such characteristics allow to use these membranes also on mechanically and thermally stressed surfaces.

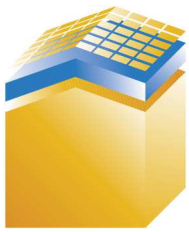
OUTSIDE FINISHING

The ARTICA MINERAL PL membrane is finished on the upper side either with natural or coloured slate granules or with ceramic granules. The lower side is finished with silicone film to be removed during the application. All polymer bituminous membranes self-protected with slate are subject to colour variations due to the exposure to weathering. These variations will tend gradually to get uniform over time.

LAYING METHOD

On the clean, smooth and dry laying surface, possibly treated to promote adhesion with solvent-based or water-based primer, the overlaps. In the presence of temperatures below + 15 ° C (or of material stored for a long time) it may be necessary to slightly heat the membrane with special hot air burners to promote adhesion. In vertical applications, fix the head of the waterproof sheet with mechanical fasteners and protect it with a metal flashing. Side overlaps of at least 10 cm and front overlaps of at least 15 cm must be provided.

USE

The ARTICA MINERAL PL membranes are planned to be used as top layer and under layer for discontinuous roofing			
			
	TLM Top layer membranes	**ULMDR** Under layer membranes for discontinuous roofing	

PACKAGING

PRODUCT	THICKNESS (mm)	WEIGHT (kg/m^2)	ROLL DIM. (m) width x length	ROLLS per PALLET	m^2 per PALLET
ARTICA MINERAL PL 3,5 KG	-	3,5	1 x 10	33	330
ARTICA MINERAL PL 4 KG	-	4	1 x 10	30	300
ARTICA MINERALPL 4,5 KG	-	4,5	1 x 10	27	270

The published data are indicative average values of the current manufacture and can be modified by producer without notice. The technical information come from our experience with regard to characteristics and use of the product. Given the many different uses and possible factors beyond our control which may intervene, we are not to be held responsible for the results. Purchasers have to assess under their responsibility if the product is suitable for the required use. The Nuova Meridiana polymer bitumen membranes products are based on bitumen coming from crude oil distillation and do not contain coal tar, asbestos or chlorine, they are recyclable and are not a dangerous waste. The polymer bitumen membrane which this data sheet refers to, is not subject to the obligation of safety profile issuing. An informative data sheet, inclusive of laying method instructions for a correct use of the product, is available on request.

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O.N. Notice code: 1370 (referred only to EN 13707 norm)

FPC certificate number: 1370-CPR-0042 (referred only to EN 13707 norm)

Reinforcement type: Reinforced and stabilized non-woven polyester mat.

Compound type: Bitumen modified with Polypropylene (BPP) adhesive on the lower side.

Surface finishing: Upper side: slate granules / coloured slate / ceramic granules.
Lower side: silicone film to be removed during application

Laying method: Thermo-adhesive / self-adhesive – propane-gas light flame – hot air - mechanical fastening.

FOR A CORRECT USE OF THE PRODUCT PLEASE REFER ANYWAY TO THE MANUFACTURER'S TECHNICAL DOCUMENTS

TEST DESCRIPTION	STANDARDS	M / U	NOMINAL VALUES			TOLERANCES
			ARTICA MINERAL PL 3,5 KG	ARTICA MINERAL PL 4 KG	ARTIC A MINERAL PL 4,5 KG	
Reference norms			EN 13707 / EN 13859-1	EN 13707 / EN 13859-1	EN 13707 / EN 13859-1	
Use	-	-	Top layer / Under layer for discontinuous roofing	Top layer / Under layer for discontinuous roofing	Top layer / Under layer for discontinuous roofing	-
Visible defects	UNI EN 1850-1	-	Pass the test	Pass the test	Pass the test	-
Length	UNI EN 1848-1	m	10,00 - 1%	10,00 - 1%	10,00 - 1%	Min.
Width	UNI EN 1848-1	M	1,00 - 1%	1,00 - 1%	1,00 - 1%	Min.
Straightness	UNI EN 1848-1	Mm	20 mm x 10 m	20 mm x 10 m	20 mm x 10 m	Max
Thickness	UNI EN 1849-1	Mm	-	-	-	± 0,2
Mass per unit area	UNI EN 1849-1	kg/m²	3,5	4	4,5	± 10%
Watertightness (B method)	UNI EN 1928	Kpa	60 - Pass the test	60 - Pass the test	60 - Pass the test	Kpa Min. ≥ 10
External fire exposure behaviour	EN 13501-5	-	Froof	Froof	Froof	-
Reaction to fire	EN 13501-1	Class	NPD	NPD	NPD	-
Shear resistance of joints	UNI EN 12317-1	N/50mm	450 / 350	450 / 350	450 / 350	-20%
Water vapour transmission	UNI EN 1931	μ Sd (m)	- 290	- 290	- 290	- ± 60
Tensile strenght L/T (max load)	UNI EN 12311-1	N/50mm	500 / 400	500 / 400	500 / 400	-20%
Breaking elongation L/T	UNI EN 12311-1	%	35 / 35	35 / 35	35 / 35	-15 absolute
Resistance to impact	UNI EN 12691	Mm	NPD	NPD	NPD	Min.
Static load (A method)	UNI EN 12730	Kg	NPD	NPD	NPD	Min.
Resistance to tearing L/T	UNI EN 12310-1	N	150 / 150	150 / 150	150 / 150	-30 %
Dimensional stability L/T	UNI EN 1107-1 A method	%	± 0,3	± 0,3	± 0,3	Min.
Flexibility at low temperature	UNI EN 1109	°C	-15	-15	-15	Min.
Flow resistance at elevated temperature	UNI EN 1110	°C	100	100	100	Min.
Flexibility at low temperature after ageing	UNI EN 1296 UNI EN 1110	°C	100	100	100	-10°C
Mineral surface adhesion	UNI EN 12039	%	Max loss 30%	Max loss 30%	Max loss 30%	Max value
Artificial ageing through long term exposure at UV radiations combined with temperature and heat – Tensile strength	UNI EN 1297 UNI EN 1296 UNI EN 12311-1	N/50mm	NPD	NPD	NPD	± 50% initial value
Artificial ageing through long term exposure at UV radiations combined with temperature and heat – Watertightness	UNI EN 1297 UNI EN 1296 UNI EN 1928 A method	Class	NPD	NPD	NPD	Kpa ≥ 60
Watertightness after artificial ageing through long term exposure at high temperatures	UNI EN 1296 UNI EN 1928	Kpa	-	-	-	Kpa Min. ≥ 10
Watertightness determination after exposure to chemical agents	UNI EN 1847 UNI EN 1928	Kpa	-	-	-	Kpa Min. ≥ 10