





VIAPOL UNISOL

APP ELASTOPLASTOMERIC MEMBRANE FLEX °C -20

Compound	ELASTOPLASTOMERIC (BPP) Polymer Bitumen membrane, compound in distilled bitumen modified with synthesis polyolefin copolymers of APAO (Polyalphaolefin) high molecular weight and low crystallinity index obtained by metallocene catalysis polymerization. These features give to the membrane an high anti-ageing capacity and the particular compound also ensures considerable advantages in the application process, thanks to the high adhesive capacity of the compound. Membranes produced with regenerated raw materials, does not contain any dangerous substance such as oxydized bitumen, tar or asbestos.
Reinforcement	Membranes of this range are reinforced with a rot-proof spunbond nonwoven polyester. This nonwoven polyester guarantees an excellent mechanical strength, tear and puncture resistance.
Finish	Membranes of this range have an underside surface finish made with a thermofusible polyethylene PE film while the top side surface finish in anti-adherent sand. MINERAL version has the top side surface finish protected with natural or colored slate granules on request. Mineral protected rolls are provided with side selvedges, that are not covered with slate chippings but with plain PE film to promote the connection and sealing of the overlaps. It is possible to request also an head selvedge (15 cm width)

FIELDS OF APPLICATIONS															
	EN 13707 NON CONTINUOUS ROOFS							EN 13859-1 UNDERTILES		EN 13970 VAPOUR CONTROL LAYER		EN 13969 BASEMENTS		EN 14995 UNDER ASPHALT	
- Single layer - Milti layer	EXPOSED		GARDEN UNDER HEAVY PROTECTION												
	_	=	≡	_	≡	_	=	_	=	_	≡	_	≡	_	=
Products		CAPSHEET	UNDERLAY				CAPSHEET								
VIAPOL UNISOL 4mm		x	х				x					x			
VIAPOL UNISOL MINERAL		x													





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	TECHNIC	CAL DATA S	HEET						
	Unit	Standard	VIAPOL UN	VIAPOL UNISOL MINERAL			Tolerance		
VISIBLE DEFECTS	Carac	EN 1850-1	pass					-	
WIDTH	m	EN 1848-1	1					-1%	
LENGHT	m	EN 1841-1	10 10					-1%	
THICKNESS	mm	EN 1849-1	4	5				-10%	
AREIC MASS	Kg/m ²	EN 1849-1				4.5	5	-10%	
STRAIGHTNESS	mm	EN1848-1		ma	x 20			pass	
MAX TENSILE FORCE L/T	N/5cm	EN 12311-1		750	/550			-20%	
ELONGATION L/T	%	EN 12311-1	40/40				-15 ass.		
RESISTANCE TO TEARING L /T	N	EN 12310-1		150	/150			pass	
RESISTANCE TO STATIC LOADING	Ka	EN 12730-A			15			pass	
RESISTANCE TO IMPACT	mm	EN 12691		9	00			pass	
JOINT STRENGHT L/T	N/5cm	EN 12317-1		650/450					
PEEL RESISTANCE OF JOINT L/T	N/5cm	EN 12316-1			-20% npd				
PLIABILITY (COLD FLEXIBILITY)	°C	EN 1109			pass				
PLIABILITY (AGED)	°C	EN 1296	-20					npd	
,		EN 1109						•	
U.V. AGEING (VISIBLE DEFECTS)	-	EN 1297						npd	
,		EN 1850-1						•	
WATERTIGHTNESS	kPa	EN 1928		•	60			pass	
WATER VAPOUR PERMEABILITY	μ x 1.000	EN 1931		20 (d	efaul	t)		pass	
WATER VAPOUR PERMEABILITY (AGED)	μ x 1.000	EN 1296		,		•		npd	
		EN 1931						_	
FLOW RESISTANCE	°C	EN 1110		1	30			pass	
FLOW RESISTANCE (AGED)	°C	EN 1110						npd	
		EN 1110							
DIMENSIONAL STABILITY L/T	%	EN 1107-1		-0,25	/+0,1	5		pass	
EXTERNAL FIRE PERFORMANCE	class	EN 13501-5		n	pd				
REACTION TO FIRE	class	EN 13501-1	npd						
ADHESION OF GRANULES	%	EN 12039				< 30)	pass	
SPECIFIC CHARACTERISTICS									
ROOT RESISTANCE	-	EN 13948						npd	
EXTERNAL FIRE PERFORMANCE		EN 13501-5						npd	
FIRE RESISTANT version		ENV 1187						1	
REACTION TO FIRE		EN 13501-1					npd		
FIRE REISTANT version		EN 11925-2						-	
MINERAL WHITE FLASH VERSION	ONS								
SOLAR REFLECTANCE	%	ASTM C 1549						npd	
INFRARED EMISSIVITY	%	EN 15976					npd		
SRI Solar Reflectance Index	%	ASTM C 1980						npd	
OTHER VALUES			<u> </u>						
SPECIFIC HEAT			3 mm	4	nm	5.	mm		
DI LOII IO IILAI	KJ/°K		3.9		.2		6.5		
THERMAL CONDUCTIVITY	W/m°K (λ)		0.0	_	.2		,		













Warnings



Transport of polymer-bitumen membranes

The transport of the polymer-bitumen membranes requires the use of a suitable means of transport, of adequate capacity, provided with a continuous planar platform and removable sides.

In order to prevent dangerous displacements of the goods due to sudden deceleration of the vehicle or sudden braking, the truck must be provided with safety containment ropes. Be sure that the safety ropes do not harm the integrity of the rolls.



Storage of polymer-bitumen membranes

The rolls must be stores indoor, in a ventilated environment, away from bad weather and solar radiation, at a room temperatures no lower than +5 °C.

The rolls, both loose and palletized, must always be positioned vertically to avoid ovalizations and possible consequences such as breakage, abnormal tension, unrolling difficulty, displanarity on the laying surfaces.



Double stacking of the pallets

Avoid, as far as possible, the double stacking of the pallets which, however, must not be stacked for more than two courses.

If double stacking is unavoidable it is strongly recommended to interpose between the pallets a rigid separation layer (such as multilayer plywood) to ensure load distribution.



General warnings

It is very important to rationalize the storage of membranes and their use according to a time-consuming stock picking logic that avoids the use of too-dated rolls.

Make sure, during the distribution phase that the full integrity of the rolls must be assured; and even check that the structure where the material is needed must be ready to stock it in a proper way.



Material handling (lifting and moving)

The handling of the membranes during the operations of loading, unloading, lifting to the laying surfaces, and handling on the site, must be carried out in conditions of full safety, avoiding the triggering of anomalous stresses in the material or any damage, so as not to compromise the mechanical / physical characteristics or reliability of the material.

If the pallets must necessarily be stored outdoors, in conditions of high room temperature, in any case even for short periods, openings must be made in the heat-shrinkable polyethylene packaging to facilitate air circulation between the rolls, thus minimizing harmful overheating due to to solar radiation and the phenomenon of the greenhouse effect.

This practice is particularly important with respect to the elastomeric type membranes which, by virtue of their compound, possess a lower stability of hot form.



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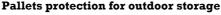












The upper face of the pallet, more engaged by the incident solar heating, must be adequately protected with covering insulating panels, wooden boards. During the winter season: store the products at a temperature above +5 °C, avoiding exposure to night-time thermal losses (radiation towards the sky). Transfer to the worksite only the material necessary for daily activities, this practice is also valid for all other periods of the year.



Reference Temperatures

It is strongly not recommended the application of polymer-bitumen membranes at room temperatures below +5 °C, in particular after their overnight stay outdoors. In fact, the loss of heat by night radiation towards the sky can cause the membranes (and also the support deck) to assume a lower temperature than the surrounding air. We can estimate this delta in $2 \div 3$ °C. Before starting the laying operations it is necessary to make sure that the atmospheric conditions are not such as to compromise their effectiveness

Do not operate or suspend work in rain, snow, intense fog, abnormal winds, low room temperature. The stagnation of humidity on the membranes jeopardizes the mutual adhesion of the membranes to the support deck. The condensation of humidity between the sheets or that between the sheets and the laying surfaces can, in the summer period, give rise to uncontrolled evaporations and steam overpressures, thus causing bubbles, swelling and tensioning in the sealing system.

Always pay the utmost attention to the installation of membranes made with seasonal compound outside the foreseen environmental conditions.

In winter, store the material that is not strictly necessary for the current laying operations in a protected environment, avoid sudden unwinding on the laying surfaces of the membranes which, if necessary, must be previously heated slightly and uniformly using a propane torch.

In summer, store the material not strictly necessary for the current laying operations in a protected/shaded environment, avoid the application in the sunniest hours of the day, use light footwear, burn only as needed

These warnings and procedures are for information only and are not exhaustive. For more detailed information, visit www.vetroasfalto.com.



All **VIAPOL** membranes partly use recycled raw materials, such as production waste that is reconditioned and reused instead of being sent to landfills. Furthermore, **VIAPOL** membranes do not contain dangerous substances and are 100% recyclable.



ADDITIONAL INFORMATIONS											
Pallet composition	Thickness	3	4	5							
	Weight				4,0	4,5	5,0				
	Rolls per pallet		25	20		25	20				
Packaging	Shrinkable polyetylene	Shrinkable polyetylene film on pallet									
Safety data sheet	Download from our web	Download from our website or request the latest version									
Application	Download from our web	Download from our website or request the document "Application of the Viapol membranes"									
Maintenence	Download from our web	Download from our website or request the document "Scheduled Maintenence"									
Certification CE	0546-CPR-16876										
Certificazione ISO	9001:2015										
Revisione		02/2020									



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