



MULTIFORCE

MADE IN ITALY

DATA SHEET



VIAPOL MAXI PROJECT MULTIFORCE ELASTOMERIC MEMBRANE | FLEX °C | -25

Description	<p>Elastomeric membrane based on distilled bitumen modified with high molecular weight synthetic polymers. This innovative prefabricated product allows the application of multilayer waterproofing systems, guaranteeing exceptional results in the speed of construction and safety of the works.</p> <p>VIAPOL MAXI PROJECT MULTIFORCE guarantees the total adhesion between the different elements that are part of the complex stratigraphy of the bituminous waterproofing system.</p> <p>VIAPOL MAXI PROJECT MULTIFORCE works as a layer of "prefabricated glue in roll". It is activated by heat during the application of the bituminous Capsheet or during the installation of the insulating panels. VIAPOL MAXI PROJECT MULTIFORCE is a protective layer that keeps the substrate waterproof, even before the application of the whole waterproofing system. The particular bitu-elastomeric compound of VIAPOL MAXI PROJECT MULTIFORCE allows various kind of applications, including:</p> <ul style="list-style-type: none"> • Vapor barrier and Adhesive layer for any kind of insulating panels; • Adhesive layer applied between the substrate (or insulating panels) and the distilled polymer-bitumen intermediate layers or Capsheet
Compound	<p>Heat activated polymer bitumen membrane, compound in distilled bitumen modified with styrene-butadiene-styrene radial block (SBS) copolymers and with special elastic-thermoplastic polymers. Membranes produced with regenerated raw materials, does not contain any dangerous substance such as oxydized bitumen, tar or asbestos.</p>
Reinforcement	<p>VIAPOL MAXI PROJECT MULTIFORCE is reinforced with a glass-stabilized non-woven polyester reinforcement that guarantees good mechanical resistance to tear and puncture.</p> <p>VIAPOL MAXI PROJECT MULTIFORCE BVP is reinforced with an embossed self-compensating aluminum foil.</p>
Finish	<p>The membranes of the VIAPOL MAXI PROJECT MULTIFORCE range have top surface finish in thermofusible polyethylene film and a removable polypropylene selvedge.</p> <p>The lower surface finish is made with a removable polypropylene film.</p>

FIELDS OF APPLICATION

	EN 13707 NON CONTINUOUS ROOF				EN 13859-1 UNDERTILES		EN 13970 VAPOUR CONTROL LAYER		EN 13969 BASEMENTS		EN 14695 UNDER ASPHALT	
	EXPOSED		GARDEN		UNDER HEAVY PROTECTION							
- Single layer = Multi layer	-	≡	-	≡	-	≡	-	≡	-	≡	-	≡
Products		CAPSHEET	UNDERLAY	CAPSHEET						CAPSHEET		
VIAPOL MAXI PROJECT MULTIFORCE			X						X			
VIAPOL MAXI PROJECT MULTIFORCE BVP			X				X					



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TECHNICAL DATA SHEET					
	Unit	Standard	VIAPOL MAXI PROJECT MULTIFORCE	VIAPOL MAXI PROJECT MULTIFORCE BVP	Tolerance
VISIBLE DEFECTS		EN 1850-1	pass		
WIDTH	m	EN 1848-1	1		-1%
LENGHT	m	EN 1841-1	10	10	-1%
THICKNESS	mm	EN 1849-1	2,5	2,5	-10%
STRAIGHTNESS	mm	EN1848-1	max 20		pass
MAX TENSILE FORCE L/T	N/5cm	EN 12311-1	500/350	350/250	-20%
ELONGATION L/T	%	EN 12311-1	40/40	4/4	-15 ass.
RESISTANCE TO TEARING L /T	N	EN 12310-1	140/160	120/120	pass
RESISTANCE TO STATIC LOADING	Kg	EN 12730-A	15	5	pass
RESISTANCE TO IMPACT	mm	EN 12691	700	500	pass
JOINT STRENGHT L/T	N/5cm	EN 12317-1	400/250	250/150	npd
PEEL RESISTANCE OF JOINT L/T	N/5cm	EN 12316-1			npd
PLIABILITY (COLD FLEXIBILITY)	°C	EN 1109	-25		pass
PLIABILITY (AGED)	°C	EN 1296 EN 1109			npd
U.V. AGEING (VISIBLE DEFECTS)		EN 1297 EN 1850-1			npd
WATERTIGHTNESS	kPa	EN 1928	60		npd
WATER VAPOUR PERMEABILITY	$\mu \times 1.000$	EN 1931	20(default)	Absolute (1)	pass
WATER VAPOUR PERMEABILITY (AGED)	$\mu \times 1.000$	EN 1296 EN 1931	-	> 500	pass
FLOW RESISTANCE	°C	EN 1110	100		pass
FLOW RESISTANCE (AGED)	°C	EN 1110 EN 1110			npd
DIMENSIONAL STABILITY L/T	%	EN 1107-1	-0,25/+0,15	-0,3/+0,3	pass
EXTERNAL FIRE PERFORMANCE	class	EN 13501-5	npd		
REACTION TO FIRE	class	EN 13501-1	npd		
SPECIFIC CHARACTERISTICS					
ROOT RESISTANCE		EN 13948			npd
EXTERNAL FIRE PERFORMANCE FIRE RESISTANT version		EN 13501-5 ENV 1187			npd
REACTION TO FIRE FIRE REISTANT version		EN 13501-1 EN 11925-2			npd

(1) For the numeric calculation: μ 1.000.000



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General warnings for self-adhesive and heat-adhesive membranes:

On-site storage

- Store the rolls in a vertical position inside the original package, in the shade and protected from sunlight. The upper face of the pallet, more heavily involved in the solar heating, must be adequately protected with insulating panels, planed boards or wooden panels (e.g. with an inverted pallet).
- Open the original packaging only before applying the product.
- Store the product on the roof with temperatures above 40 ° C only for the time necessary for installation.
- Unused or partially used rolls must be protected from sunlight and kept in the shade.

Instructions and warnings for the application

- The VETROASFALTO self-adhesive and heat-activated membranes can be installed on clean, dry and stable substrates and the substrates must be treated with bituminous primer, with the exception of wooden surfaces.
- Do not apply the self-adhesive or heat activated membrane in wet and cold weather conditions: the temperature must be higher than +10 ° C. In colder weather, the application can be facilitated by using special hot air burners. Do not apply in climatic conditions of particular humidity (fog, dew)
- The silicone-removable film placed on the adhesive underside of the membrane must be removed immediately before the laying operations.
- The head transversal joints must be at least 15 cm. The joints must be covered completely the longitudinal selvedge of which the rolls are supplied
- Overlaps must always be pressed with a special Teflon coated roller
- In the case of application of the Mineral version as an under-tile on pitches with slopes higher than 15%, we recommend an adequate mechanical fixing of the head and under the selvedge of the membranes.
- In the case of prefabricated structures with split tiles, connection bands must be applied to cover the coupling of the different prefabricated elements. The strips, (4mm membrane) have to cover both edges for a minimum of 10 cm.
- The vertical flaps must rise at least 20 cm over the maximum altitude estimated for the rainwater flow
- The vertical reliefs must be completed with mechanically fixed metal flashings
- In case of, during the laying operations, it is necessary to make adjustments or realignments of the roll, we recommend to cut it and prepare a joint. Don't repeat the installation by detaching the membrane from the surface on which it has already been applied repositioning it.

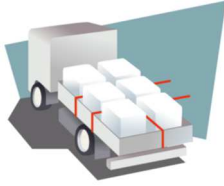
These warnings and methods are for information only and are not exhaustive. For further and in-depth information, consult the website www.vetroasfalto.com.



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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 stored indoors, in a ventilated environment, away from bad weather and solar radiation, at a room temperature 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, displacement 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.

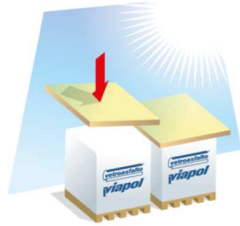


Material handling (lifting and moving)

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.

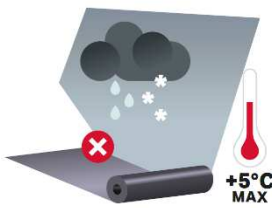
If the pallets must necessarily be stored outdoors, in conditions of high room temperature, in any case even for short periods, openings must be made in the heat-shrinkable polyethylene packaging to facilitate air circulation between the rolls, thus minimizing harmful overheating due to solar radiation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



Pallets protection for outdoor storage

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 ÷ 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 (mm)	2,5						
	Weight							
	Rolls per pallet	30						
Packaging	Shrinkable polyethylene film on pallet							
Safety data sheet	Download from our website or request the latest version							
Application	Download from our website or request the document "Application of the Viapol membranes"							
Maintenance	Download from our website or request the document "Scheduled Maintenance"							
Certification CE	0546-CPR-16876							
Certificazione ISO	9001:2015							
Revisione	02/2022							



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