

GUIDE TO LAYING FLEXTER TEX MEMBRANES WITH COLD MASTIPOL ADHESIVE









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LAYING SYSTEM WITH COLD MASTIPOL ADHESIVE

Polymer-bitumen waterproofing membranes for the building trade in Italy are traditionally flame-glued to the laying surface and on the overlaps using a propane gas torch.

On cement surfaces (fulfilled by trained professionals) the flame laying system does not involve any particular risks of injury or fire, and even if it does, they are certainly less than the old hot bitumen laying system; precautions must on the other hand be greater when laying on thermal insulation panels and on combustible surfaces such as wood boards, especially when these are laid over a ventilated air space.

If you then also consider that by laying in total adherence with adhesive spread right over the whole surface to be lined, if the waterproof covering is accidentally lacerated, only a minimum amount of water leaks around the damaged area and therefore the leak is much easier to find compared to a covering laid without adhesive or only glued partially; it is consequently easy to understand why such type of laying system is very popular in north Europe, where insulating panels have been used for much longer and where wood roofs are much more common.

The advantages offered by the cold laying system using MASTIPOL adhesive can consequently be summarised as follows:

- With the adhesives available in building sites restricted by special safety measures, as well as gluing the membranes on the parts along the roof, it is possible to cold glue on the vertical parts and overlaps, even if the seal of the joints is inferior to that obtained by torch sealing or hot air sealing. The hot air sealing of overlaps and gluing on projecting parts of modest surfaces, when admitted, eliminates problems related to the use of naked flames and gas cylinders. In most cases, where particular restrictions are not imposed, also in the case of flame-sealing just the overlaps and gluing the vertical parts with the same method, the risk of fire and explosion is in any event reduced considerably, due both to the circumscribed use of the naked flame and to the considerable reduction in the quantity of propane gas cylinders used on site.
- Membranes glued with a coating of adhesive remarkably reduces water leakage if the covering is lacerated and makes it easier to find the point of leakage.
- Gluing in total adherence considerably reduces tension caused by thermal changes on exposed waterproof coverings, which prevents the formation of folds.

To obtain an optimum adherence to the laying surface, the membrane must have been designed specifically for the purpose in order to guarantee strong and durable adhesion of the adhesive.

Membranes for heat bonded laying are normally produced with the bottom face lined with a thermoplastic film that is melted with a propane gas torch during application; this surface finish does not offer sufficient guarantees of lasting adhesion to cold glues and this is why the FLEXTER TEX membranes indicated for laying with cold adhesive have the bottom face lined with a textile polypropylene fibre finish, coupled at high temperature, with high specific surface that guarantees a durable bond over time.









• Elimination/reduction of the risk of fire and explosion





 Adhesive coating considerably reduces water leakage if the covering is lacerated and makes it easier to find the leakage point

ADVANTAGES





• Gluing in total adherence considerably reduces tension caused by thermal changes of exposed waterproof coverings, which prevents the formation of folds



FLEXTER TEX WATERPROOFING MEMBRANES

The membranes of the FLEXTER TEX series consist of an elastoplastomeric phase inversion mix with base of selected distilled bitumen, elastomeric polyolefin and plastomeric polymers, in which the continuous phase is the polymer component; for this reason the polymer-bitumen mix is resistant at high and low temperatures and it keeps these features lastingly over time.

The membranes of the FLEXTER TEX series feature a textile finish of the bottom face consisting of nonwoven polypropylene fibre fabric TEXFLAMINA coupled at high temperature to the polymer-bitumen membrane.

This ensures strong adhesion of the fabric to the membrane in view of its fibrous nature, considerably increases the specific gripping surface to the adhesives and represents a very efficient adhesion intermediary, thus incrementing the glued membrane's resistance to peeling.

The TEXFLAMINA finish is studied for gluing with cold MASTIPOL adhesive but is also effective when gluing with molten oxidized bitumen laid hot. The TEXFLAMINA finish ensures durable and higher adhesion than that obtained on the surface of talcum-treated or sand-treated membranes and unlike these, the adhesion force increases over time. When TEXFLAMINA is not glued in place, it acts as a sliding layer with low friction coefficient, better than the talcum and sand finish and even the plastic films normally coupled with the bottom face of bituminous membranes.



PEEL TEST (ADHESION STRENGTH N/50 MM)					٨
Membrane surface	Gluing on concrete with molten oxidized bitumen		on concrete with molten oxidized bitumen Gluing on concrete with MASTIPOL		
finish	New	After ageing (*)	New	After ageing (*)	Membrane
Sabbia/talco	33	24	38	30	Texflamina
Texflamina	40	85	45	76	Support
(*) Ageing: 25 d at 7	70°C.				Adhesive

Among the membranes of the FLEXTER TEX series of particular interest is FLEXTER BIARMATO TEX, which has double reinforcement with non-woven polyester fabric coupled with fibreglass mat positioned in the top part of the body of the membrane but still covered with a fine film of polymer bitumen that enables the easy and durable sealing of the overlaps. The double reinforcement is the most antique system used but still the most effective to guarantee the best dimensional stability to heat of the membrane, especially in the initial drying phase of the adhesive when it is glued exposed on a strong thermal insulation product. Stabilisation with fibreglass mat also positively affects the thermal-mechanical reaction of the membrane at low temperatures; by reducing its thermal contraction towards the geometric centre of the roofing, in combination with gluing in total adherence, the formation of tension and perimeter folds of the waterproof covering by the corners and ends of the roof reliefs is reduced.

A dimensional stability similar to the double reinforcement is offered by the triple reinforcement of the MINERAL FLEXTER FR TRIATEX membrane made up of fibreglass mat applied between the two layers of non-woven polyester fabric that contributes in the membrane's resistance to fire, such as in the case of the FR version (Fire Resistance) of BIARMATO, in combined action with the special additive added to the polymer-bitumen mix of these versions.

The flame retardant additive of the FR versions is harmless, is of mineral nature, does not contain chlorine and does not release toxic gas during combustion.

The MINERAL FLEXTER TEX and FLEXTER 25/5 TEX membranes have a composite reinforcement in non-woven polyester fabric stabilised with fibreglass in the longitudinal direction, which is the one most subject to the problem of hot shrinkages of the membranes when exposed to the sun, in order to avoid the problem of the end joins slipping. The reinforcement and the thickness of type 25/5 are more consistent so that it can be used also on coverings subject to foot-traffic and in more committing projects.

Finally, versions FLEXTER BIARMATO TEX and FLEXTER 25/5 TEX used as waterproof coverings of "green" roofs can be mixed with Preventol B2 additive, the root-inhibitor additive of waterproofing membranes for roof gardens.

CERTIFICATIONS						
	A series and the second s		Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test Test	A series of the		
The membranes of the FLEXTER TEX series are certified by the Agrement of the Belgian Institute UBAtc with number ATG/1616 and therefore meet both the requirements of European standards EN for CE marking and also the stricter performance requirements of the UEAtc.	The FR versions pass the fire resistance test according to ENV 1187/1 and are classified as compliant with EN13501-5: B roof-t1.	The wind resistance of FLEXTER BIARMATO glued with MASTIPOL adhesive has also been certified.	For the FLEXTER BIARMATO FR and MINERAL FLEXTER FR membranes, (distributed in Holland under the name of WEDEFLEX CRT, MINERAL WEDEFLEX CRT and WEDEFLEX D4 respectively), the Dutch Research Institute BDA, after assessing work carried out over the years, has certified their durability in at least 30 years.	FLEXTER BIARMATO TEX and FLEXTER 25/5 TEX mixed with Preventol B2 additive are certified by the German Institute FORSCHUNGSANSTALT GEISENHEIM with the FLL method, compliant with standard EN-13948.		

THE ADHESIVES

MASTIPOL

MASTIPOL is a bituminous adhesive with base of special bitumen, elastomers, solvents and mineral additives.

It is formulated to ensure the adherence effectiveness of the polymer-bitumen membrane on concrete and wood, old bituminous coverings, extruded polyurethane, rock wool and extruded perlite, the latter with the top face pre-lined with bitumen. When laying on extruded polystyrene, the panel must already be protected with a bituminous sheet with talcum or sand finish and strips that protect the joining lines of the panels against drips of adhesive.

It is an easily trowellable paste and is spread evenly on the laying surface using the special spreading tool.

It seals hairline cracks in the laying surface providing an intermediate waterproof layer between the support and the waterproofing membrane.

MASTIPOL is used to glue the polymer-bitumen membranes on flat roofs of civil and industrial

buildings with maximum pitch of 5%. For pitches greater than 5%, gluing must be integrated with mechanical fixing. The consumption of MASTIPOL is approximately 1 kg/m² and depends on the roughness of the support.

Porous supports such as concrete and old bituminous coverings are to be prepared in advance with a coat of INDEVER bituminous primer. The laying surfaces must be smooth and regular, perfectly clean without any loose and brittle parts, dry and free from oil and grease. MASTIPOL must not be used to glue the overlaps of the membrane and the recommended application temperature of the support is higher than +5°C.



TECHNICAL CHARACTERISTICS				
	MASTIPOL			
Appearance	pasty			
Colour	black			
Specific weight (volume mass) at 23°C (UNI EN ISO 2811-1)	1.30±0.10 kg/litre			
Solid content (m/m) (UNI-EN-ISO 3251)	80%±4%			
Ford viscosity cup no. 6 at 23° C. (UNI-EN-ISO 2431)	20'±3'			
Flash point (closed cup) (ASTM D 3828-87)	>23°C			
Shelf life in original packaging	12 months			



HEADCOLL

Bituminous solvent adhesive with base of selected bitumen and resins, solvents and mineral additives, formulated specifically for the overlaps of polymer-bitumen membranes; it can be used also to glue the membrane on the vertical parts of the roof.

The adhesive can also be used as a filler to repair bubbles of old bituminous coverings before laying the membrane with Mastipol adhesive.

It contains both special resins, which compared to normal bituminous adhesives increase the bonding power, and also rapid evaporation solvents that speed-up product drying. The indicative consumption of the product is roughly 0.8-1 kg/m².





TECHNICAL CHARACTERISTICS				
	HEADCOLL			
Appearance	pasty			
Colour	black			
Specific weight (volume mass) at 23°C (UNI EN ISO 2811-1)	1.40±0.10 kg/litre			
Solid content (m/m) (UNI-EN-ISO 3251)	90%±3%			
Viscosity at 20° C.	100,000±1,000 cps			
Drying time (dry dust free)	3 hours			
Shelf life in original packaging	12 months			

MASTICOLL

It is an adhesive used for the cold gluing of thermal insulation panels that completes the range of adhesives necessary for a complete cold gluing cycle of all the stratified elements of the roof.

MASTICOLL can be used to glue panels of foam and extruded polystyrene, extruded polyurethane, perlite and cellulose fibres on building roofs up to a maximum pitch of 5%. For greater pitches, gluing will be integrated with mechanical fixing. To fix the panels, dot knobs of adhesive on the bottom side of each panel by the corners and in the centre, for a consumption of 0.8 kg/m² approximately. The panel is subsequently laid on a bituminous vapour barrier with the top face treated with talcum, sand

or lined with Texflamina, pressing it down with the feet.





TECHNICAL CHARACTERISTICS			
	MASTICOLL		
Appearance	viscous liquid		
Colour	black		
Specific weight (volume mass) at 23°C (UNI EN ISO 2811-1)	1.40±0.10 kg/litre		
Solid content (m/m) (UNI-EN-ISO 3251)	85%±5%		
Viscosity at 20°C	40,000±1,000 cps		
Setting time (Hardened)	48 hours		
Flash point (closed cup) (ASTM D 3828-87)	>+23°C		
Shelf life in original packaging	12 months		

FIELDS

FLAT ROOF THAT CAN BE WALKED OVER







OF USE

FLAT ROOF THAT CANNOT BE WALKED OVER

ON CONCRETE SURFACE

without thermal insulation



with thermal insulation

8. FLEXTER BIARMATO TEX 9r MINERAL FLEXTER TEX STRATIGRAPHY 1. Cement-based surface 2. INDEVER 7. MASTIPOL 3. MASTIPOL 4. DEFEND or DEFEND ALU POLYESTER 5. MASTICOLL 6. Thermal insulation AAA 14 10 MASTICOL 144 441 6. Thermal insulation 7. MASTIPOL 8. FLEXTER BIARMATO TEX or MINERAL FLEXTER TEX 4. DEFEND or DEFEND ALU POLYESTER 3. MASTIPOL 1. Cement-bas surface ed 2. INDEVER



ON WOOD SURFACE

without thermal insulation



with thermal insulation







FIELDS



OF USE



COOL ROOF WATERPROOFING WITH HIGH REFLECTIVITY AND EMISSIVITY



By painting the top slated face with MINERAL FLEXTER on roofs with exposed covering you can obtain a "Cool Roof", whose face exposed to sun rays reaches temperatures of just 40-42°C instead of the 75-80°C of waterproofing products with dark finish. The WHITE REFLEX paint obtains a superior performance compared to coverings protected with metal foil and unlike these it enables quicker cooling overnight.



WHITE REFLEX

WHITE REFLEX is a one-component white paint with polymer base in water emulsion and special additives. Once dry it forms a flexible film, resistant to atmospheric agents, with high solar reflectance and infrared emissivity.

WHITE REFLEX is used to protect polymer-bitumen membranes: the white finish and the special additives not only extend the life of the roof coverings but also reduce the temperature, both outside and inside the building. The high level of reflectance of WHITE REFLEX (0,75) does indeed considerably reduce the heat absorbed from the rays of the sun compared to a dark surface; this consequently leads to a considerable reduction in the temperature and to consistent savings in energy to condition the buildings. The high level of infrared emissivity (>0.85) also favours the dissipation of heat accumulated overnight. It can also be applied on plaster and concrete surfaces. The reduction in temperature and the distributed light also increase the efficiency of photovoltaic panels.



The performance of the panels does indeed decrease by approximately 5% for every 0.5°C deviation from the temperature of 25°C (temperature at which best performance is obtained). By painting roofs with **WHITE**

REFLEX you will obtain a SRI value (Solar Reflectance Index) of 92, and therefore obtain LEED credits for the reduction in the Heat Island Effect.



LAYING METHODS AND DETAILS



Automatical Cold Sealing with HeadColl I. Spread HEADCOLL Automatical Cold Sealing with HeadColl I. Spread HEADCOLL



TORCH SEALING



SEALING WITH SAFETY BURNER



Sealing the overlaps

Lining the

protruding parts with HEADCOLL adhesive



1. Spread HEADCOLL over the corner between the flat part and vertical part



2. Reinforce the covering on a corner by gluing a 15 cm high strip of membrane



3. Press the reinforcement strip thoroughly



4. The membrane of the flat part, glued with MASTIPOL will be butted at the end of the protruding part, sealing it to the corner strip



5. Pre-arrange the lining of the protruding part that will be turned over and sealed on the surface for 10 cm beyond the reinforcement strip



6. The vertical part glued with HEADCOLL will be pressed thoroughly



SPECIFICATION ITEMS AND TECHNICAL FEATURES

FLEXTER BIARMATO TEX

The waterproofing system will be made up of a polymer-bitumen elastoplastomeric membrane, type **FLEXTER BIARMATO TEX** certificated with Agrement UBAtc, with base of selected distilled bitumen, elastomeric polyolefin and plastomeric polymers with double reinforcement consisting of non-woven polyester fabric coupled with fibreglass mat positioned in the top part of the body of the membrane; the bottom face is lined with a film of polypropylene fibres coupled at high temperature and the top face is protected with wet screen-printed talcum finish.

The 4-mm membrane (UNI EN 1849-1) will have a tensile strength (UNI EN 12311-1) L/T of 650/550 N/50mm, ultimate elongation (UNI EN 12311-1) L/T of 50/50%, resistance to tearing (UNI EN 12310-1) L/T of 150/150 N, cold flexibility (UNI EN 1109) of -15° C, resistance to impact (UNI EN 12691) of 1000 mm, a dimensional stability (UNI EN 1107-1) L/T ±0.2% and resistance to static load (UNI EN 12730) of 15 kg.

Note. when waterproofing roof gardens, foundations etc. where the aggression of roots is feared, the membrane will be mixed with Preventol B2 additive, being the root inhibitor additive of the polymer-bitumen waterproofing membranes, whose effectiveness must be validated by the certificate of the German institute FORSCHUNGSANSTALT GEISENHEIM with the FLL method compliant with standard EN-13948.

FLEXTER BIARMATO FR TEX

The waterproofing system will be made up of a fire resistant polymer-bitumen elastoplastomeric membrane, type **FLEXTER BIARMATO TEX** certificated with Agrement UBAtc, with base of selected distilled bitumen, elastomeric polyolefin and plastomeric polymers, with self-extinguishing mineral additives, double reinforcement consisting of non-woven polyester fabric coupled with fibreglass mat positioned in the top part of the body of the membrane; the bottom face is lined with a film of polypropylene fibres coupled at high temperature and the top face is protected with wet screen-printed talcum finish.

The 4-mm membrane (UNI EN 1849-1), during the fire resistance test (ENV 1187/1) will be certified B roof-t1 compliant with EN 13501-5 and will have a tensile strength (UNI EN 12311-1) L/T of 650/550 N/50mm, ultimate elongation (UNI EN 12311-1) L/T of 50/50%, resistance to tearing (UNI EN 12310-1) L/T of 150/150 N, cold flexibility (UNI EN 1109) of -15° C, resistance to impact (UNI EN 12691) of 1000 mm, a dimensional stability (UNI EN 1107-1) L/T ±0.2% and resistance to static load (UNI EN 12730) of 15 kg.

MINERAL FLEXTER TEX

The waterproofing system will be made up of a polymer-bitumen elastoplastomeric membrane, self protected with slate granules, with base of selected distilled bitumen, elastomeric polyolefin and plastomeric polymers, with composite reinforcement consisting of non-woven polyester fabric stabilised with fibreglass, type **MINERAL FLEXTER TEX** certificated with Agrement UBAtc; the membrane bottom face is lined with a film of polypropylene fibres coupled at high temperature, The 4-mm membrane (UNI EN 1849-1) will have a tensile strength (UNI EN 12311-1) L/T of 850/700 N/50mm, ultimate elongation (UNI EN 12311-1) L/T of 50/50%, resistance to tearing (UNI EN 12310-1) L/T of 150/150 N, cold flexibility (UNI EN 1109) of -15°C, resistance to impact (UNI EN 12691) of 1250 mm, a dimensional stability (UNI EN 1107-1) L/T \pm 0.3% and resistance to static load (UNI EN 12730) of 15 kg.

MINERAL FLEXTER FR TRIATEX

The waterproofing system will be made up of a polymer-bitumen elastoplastomeric membrane, type **MINERAL FLEXTER FR TRIATEX** certificated with Agrement UBAtc, resistant to fire, self protected with slate granules, with base of selected distilled bitumen, elastomeric polyolefin and plastomeric polymers, with triple reinforcement consisting of fibreglass mat between two layers of non-woven polyester fabric; the bottom face is lined with a film of polypropylene fibres coupled at high temperature

The 4-mm membrane (UNI EN 1849-1), during the fire resistance test (ENV 1187/1/3/4) will be certified B roof-t1-t3-t4 compliant with EN 13501-5 and will have a tensile strength (UNI EN 12311-1) L/T of 750/650 N/50mm, ultimate elongation (UNI EN 12311-1) L/T of 50/50%, resistance to tearing (UNI EN 12310-1) L/T of 250/250 N, cold flexibility (UNI EN 1109) of -15° C, resistance to impact (UNI EN 12691) of 1000 mm, a dimensional stability (UNI EN 1107-1) L/T $\pm 0.3/0.1\%$ and resistance to static load (UNI EN 12730) of 15 kg.

FLEXTER 25/5 TEX

The waterproofing system will be made up of a polymer-bitumen elastoplastomeric membrane, type **FLEXTER 25/5 TEX** certificated with Agrement UBAtc, with base of selected distilled bitumen, elastomeric polyolefin and plastomeric polymers, with composite reinforcement in non-woven polyester fabric stabilised with fibreglass; the bottom face is lined with a film of polypropylene fibres coupled at high temperature and the top face is protected with wet screened-printed talcum finish.

The 5-mm membrane (UNI EN 1849-1) will have a tensile strength (UNI EN 12311-1) L/T of 1100/900 N/50mm, ultimate elongation (UNI EN 12311-1) L/T of 50/50%, resistance to tearing (UNI EN 12310-1) L/T of 200/200 N, cold flexibility (UNI EN 1109) of -15°C, resistance to impact (UNI EN 12691) of 1500 mm, a dimensional stability (UNI EN 1107-1) L/T ±0.5% and resistance to static load (UNI EN 12730) of 20 kg.

Note. when waterproofing roof gardens, foundations etc. where the aggression of roots is feared, the membrane will be mixed with Preventol B2 additive, being the root inhibitor additive of the polymer bitumen waterproofing membranes whose effectiveness must be validated by the certificate of the German institute FORSCHUNGSANSTALT GEISENHEIM with the FLL method compliant with standard EN-13948.



INTENDED USE OF "CE" Marking Specified According to the Aispec-Mbp Guidlines

EN 13707 - REINFORCED BITUMEN SHEETS

FOR ROOF WATERPROOFING

Under layer or intermediate layer in

- multi-layer systems without permanent heavy surface protection
- FLEXTER 25/5 TEX
- FLEXTER BIARMATO FR TEX
- FLEXTER BIARMATO TEX
- Upper layer in multi-layer systems without permanent heavy surface protection

- MINERAL FLEXTER FR TRIATEX

- MINERAL FLEXTER TEX
- FLEXTER 25/5 TEX
- FLEXTER BIARMATO FR TEX
- FLEXTER BIARMATO TEX
- Single-layer without permanent heavy
- surface protection
- MINERAL FLEXTER FR TRIATEX
- MINERAL FLEXTER TEX
- FLEXTER 25/5 TEX
- FLEXTER BIARMATO FR TEX
- FLEXTER BIARMATO TEX
- Single-layer under heavy protection
- FLEXTER 25/5 TEX
- FLEXTER BIARMATO FR TEX
- FLEXTER BIARMATO TEX
- Under heavy protection in multi-layer

systems

- FLEXTER 25/5 TEX
- FLEXTER BIARMATO FR TEX
- FLEXTER BIARMATO TEX

EN 13969 - BITUMEN DAMP PROOF SHEET INCLUDING BITUMEN BASEMENT TANKING SHEETS

Membranes for foundations

- FLEXTER 25/5 TEX

- FLEXTER BIARMATO FR TEX
- FLEXTER BIARMATO TEX
- FLEXTER BIARMATO TEX

TECHNICAL CHARACTERISTICS							
	т	MINERAL FLEXTER FR TRIATEX	MINERAL FLEXTER TEX	FLEXTER 25/5 TEX	FLEXTER BIARMATO FR TEX	FLEXTER BIARMATO TEX	
Thickness (EN 1849-1)	±0,2	4 mm	4 mm	5 mm	4 mm	3 mm	
Roll size (EN 1848-1)	≥	1×10 m	1×10 m	1×10 m	1×10 m	1×10 m	
Reinforcement	I	Composite with 3 layers in fibreglass between 2 layers of non-woven polyester Sp. fabri	Composite non-woven polyester fabric c stabilised with fibreglass	Composite non-woven polyester fabric stabilised with fibreglass	Spunbond non-woven polyester fabric and fibreglass mat	Spunbond non-woven polyester fabric and fibreglass mat	
Watertightness (EN 1928 method B)	≥	60 kPa	60 kPa	60 kPa	60 kPa	60 kPa	
Peel resistance (EN 12316-1)	-20 N	-	50 N/50 mm	_	100 N/50 mm	100 N/50 mm	
Shear resistance (EN12317-1)	-20%	650/550 N/50 mm	750/600 N/50 mm	900/800 N/50 mm	500/500 N/50 mm	500/500 N/50 mm	
Maximum tensile force Long./Trasv. (EN 12311-1)	-20%	750/650 N/50 mm	850/700 N/50 mm	1.100/900 N/50 mm	650/550 N/50 mm	650/550 N/50 mm	
Elongation (EN 12311-1)	-15 V.A	. 50/50%	50/50%	50/50%	50/50%	50/50%	
Resistance to impact (EN 12691 method A)		1.000 mm	1.250 mm	1.500 mm	1.000 mm	1.000 mm	
Resistance to static loading (EN 12730)		15 kg	15 kg	20 kg	15 kg	15 kg	
Resistance to tearing (nail shank) (EN 12310-1)	-20%	250/250 N	150/150 N	200/200 N	150/150 N	150/150 N	
Dimension stability (EN 1107-1)	≤	-0,3/+0,1%	-0,3/+0,3%	-0,3/+0,3%	-0,2/+0,2%	-0,2/+0,2%	
Flexibility to low temp. (EN 1109) ≤	–15°C	–15°C	–15°C	–15°C	–15°C	
 after ageing at high temperature (1296-1109) 	+15°C	–10°C	–10°C	–5°C	–15°C	–10°C	
Flow resistance at high temperature (EN 1110) • after ageing at high	≥	120°C	120°C	120°C	120°C	120°C	
temperature (1296-1110)	–10°C	110°C	110°C	120°C	110°C	120°C	
UV ageing (EN 1297)		Passed the test	Passed the test	Passed the test	Passed the test	Passed the test	
Fire class (EN 13501-1)		Euroclass E	Euroclass F	Euroclass F	Euroclass E	Euroclass F	
External fire performance (EN 13501-5)		B _{mot} -t1 / B _{mot} -t3 / B _{mot} -t4	Front	Front	B _{roof} -t1	Front	





ACCESSORY MEMBRANES

MEMBRANES FOR VAPOUR BARRIER ON CONCRETE

DEFEND (*) - flame laying or with MASTIPOL adhesive

DEFEND ALU POLYESTER (*) - Flame laying or with MASTIPOL adhesive

TECTENE BV STRIP EP/V - Flame laying

TECTENE BV STRIP ALU EP POLYESTER - Flame laying

PROMINENT/V - PROMINENT POLYESTER - PROMINENT ALU POLYESTER - Flame laying

SELFTENE BASE EP POLYESTER - SELFTENE BASE EP ALU POLYESTER - Self-adhesive under heavy protection

MEMBRANES FOR VAPOUR BARRIER ON WOOD

ELASTOCENE POLYESTER - Dry nailed laying

SELFTENE BASE EP POLYESTER - SELFTENE BASE EP ALU POLYESTER - Self-adhesive

SELFTENE BV BIADESIVO ALU POLYESTER - Self-adhesive

MEMBRANES FOR VAPOUR BARRIER ON RIBBED METAL SHEET

SELFTENE BASE EP ALU POLYESTER - Self-adhesive

SELFTENE BV BIADESIVO ALU POLYESTER - Self-adhesive

UNDER LAYER MEMBRANES

ELASTOCENE POLYESTER - Flame laying on concrete. Dry nailed laying on wood.

SELFTENE BASE EP POLYESTER - Self-adhesive on concrete, on wood and on thermal insulation.

(*) For cold gluing with MASTIPOL, the membranes must have the bottom face treated with Texflamina.

ing the numerous possible uses and the possible interference of conditions or elements beyond out condit, we assume to reprosibility regarding the results which are obtained. The purchasers, of their own condition of under their own responsibility, must establish the suitability of the product for the enviseged use.

The figures shown are average inclicative figures relevant to current production and may be drargation or updated by NDEX SLA at any time without previous warning. The advice and technical information provided, is what results from our best knowledge regarding the properties and the use of the product. Conside

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