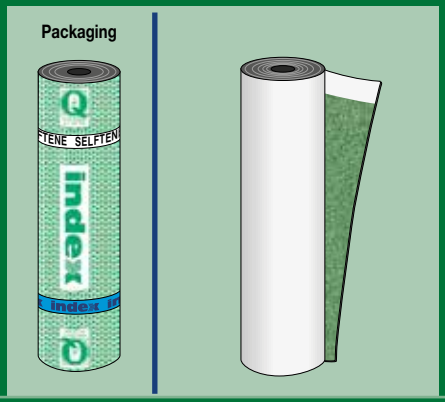
Packaging



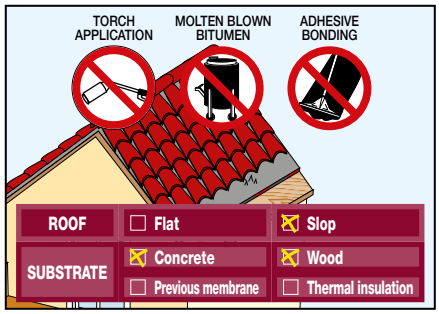
MINERAL SELFTENE TEGOLA EP POLYESTER

ELASTOPLASTOMERIC DISTILLED POLYMER-BITUMEN SELF-ADHESIVE WATERPROOFING MEMBRANES, SELF-PROTECTED WITH SLATE GRANULES

GRANTS *LEED* CREDITS

CATEGORY	CHARACTERISTICS			ENVIRONRMENTAL							METHOD OF USE	
EP S		SUPER ADHESIVE	Reazione al fuoco		ASBESTOS FREE	TAR FREE	CHLORINE FREE					
SPECIAL ELASTOPLASTOMERIC FOR SPECIFIC USES	WATERPROOF	SUPER-ADHESIVE	REACTION TO FIRE	ECO GREEN	ASBESTOS FREE	TAR FREE	CHLORINE FREE	RECYCLABLE	NON DANGEROUS WASTE	EXHAUSTED OIL FREE	APPLICATION BY PRESSURE	NAILING

1 PROBLEM



HOW TO APPLY THICK PROFESSIONAL REINFORCED MEMBRANES TO WATERPROOF UNDER-TILES WITHOUT TORCHING OR USING OTHER HEAT SOURCES OR HARMFUL ADHESIVES

The torch laying process of thick reinforced membranes on wood boards presumes the laying in advance of a nailed-on flame barrier. In some situations, the use of flames, melted oxidised bitumen or harmful solvent-based adhesives is forbidden. Consequently laying on thermal insulation products such as extruded polystyrene, which is sensitive to heat and solvents, is quite a problem.

2 SOLUTION

MINERAL SELFTENE TEGOLA EP POLYESTER is a under-tile waterproofing membrane made of elastoplastomeric distilled polymer-bitumen. It is resistant to heat above 140°C, very thick and self-adhesive by simple pressure at ambient temperature. The cement mortar strips used to lay different types of tiles directly on it, bond strongly to the upper face of the membrane, which is self-protected with non-slip slate granules.
The membrane is reinforced with non-woven composite polyester fabric stabilised with fibreglass, offering resistance and high dimensional stability.

The bottom face of **MINERAL SELFTENE TEGOLA EP POLYESTER** is coated with a special self-adhesive elastomeric mass, which adheres by simple pressure at room-temperature. It consists of a special selected mix of Venezuelan bitumen, tackifying resins and radial and linear elastomeric thermoplastic polymers, which guarantee long-lasting adhesive properties. The graph shows how, unlike standard bitumen-based mixes, **SELFTENE**'s adhesive mass maintains its adhesive properties during the shelf-life test. The following graph, shows how its formulation with special 'antifreeze' additives allows it to maintain its high adhesive power even at low temperatures during the cold adhesion test.
The bottom adhesive face is protected by a silicone-coated film, which is to be removed during laying.
The membrane's upper face is covered with mineral slate bonded at high temperature, excpet a side strip which is 3-cm wide, that is meant to be nailed, followed by a self-adhesive on 6-cm wide meant for sealing the overlaps which is protected by a strip of bisilicon polyethilene.

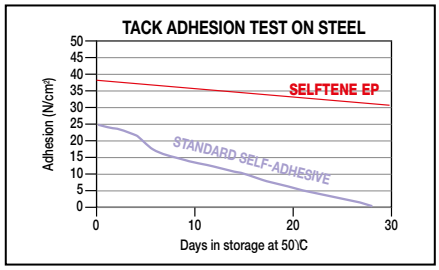
CE INTENDED USE OF "CE" MARKING SPECIFIED ACCORDING TO THE AISPEC-MBP GUIDLINES

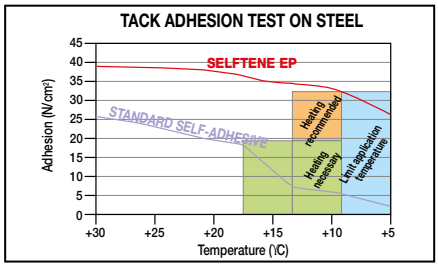
EN 13707 - REINFORCED BITUMEN SHEETS FOR ROOF WATERPROOFING
• Upper layer in multi-layer systems without permanent heavy surface protection
- MINERAL SELFTENE TEGOLA EP POLYESTER

EN 13859-1 - UNDERLAY FOR DISCONTINOUS ROOFING
- MINERAL SELFTENE TEGOLA EP POLYESTER

The side overlaps are sealed again by self-adhesion, while the head overlaps or in any event those on the slate, are sealed with adhesive paste called HEADCOLL laid between the edges to be joined or, when admitted, they can be torch sealed or sealed with hot air.

(See following)





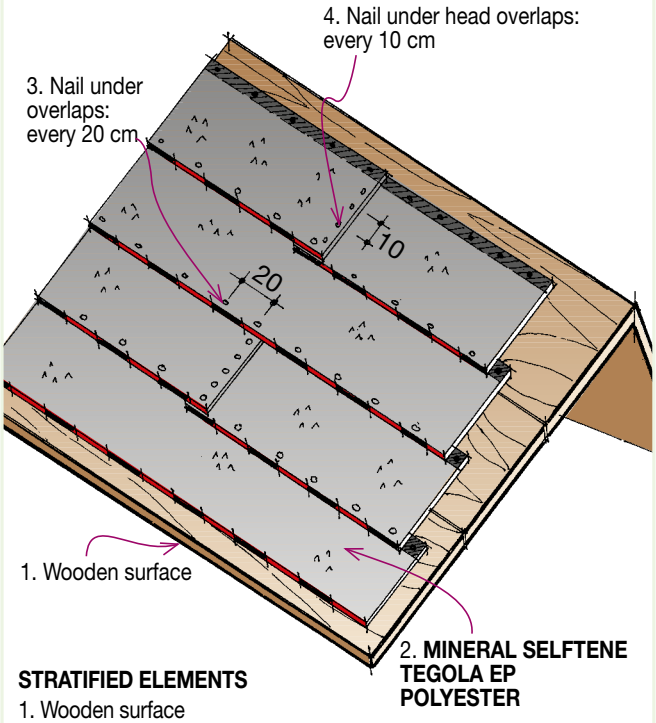
ADVANTAGES

- **It is more secure and fast.**
- **No special tools are required.**

ATTENTION
Application of undertile membrane must always be supported by mechanical fixing for any kind of sloping roof.

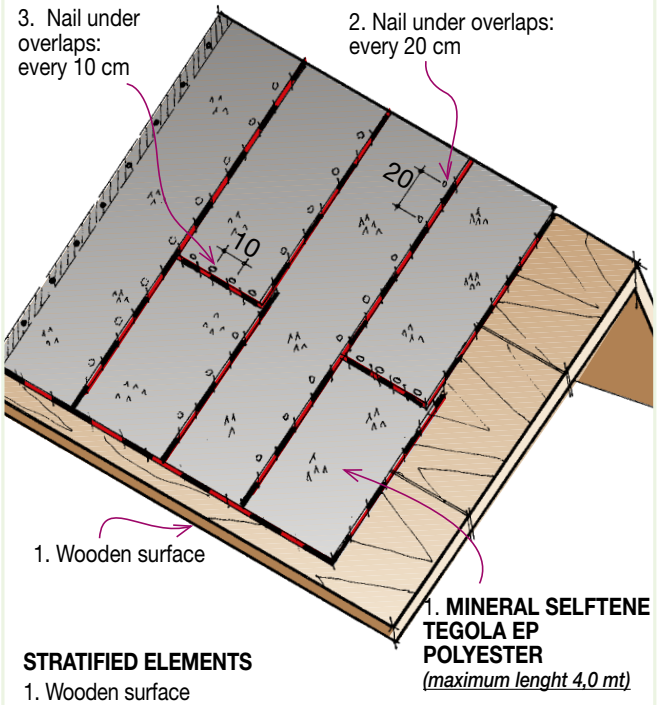
LAYING METHOD - Maximum slope: 35%

Problem: APPLICATION ON WOODEN ROOF
Solution: with membrane parallel to the gutter line



STRATIFIED ELEMENTS
1. Wooden surface
2. **MINERAL SELFTENE TEGOLA EP POLYESTER**
3. Nail under overlaps: every 20 cm
4. Nail under head overlaps: every 10 cm

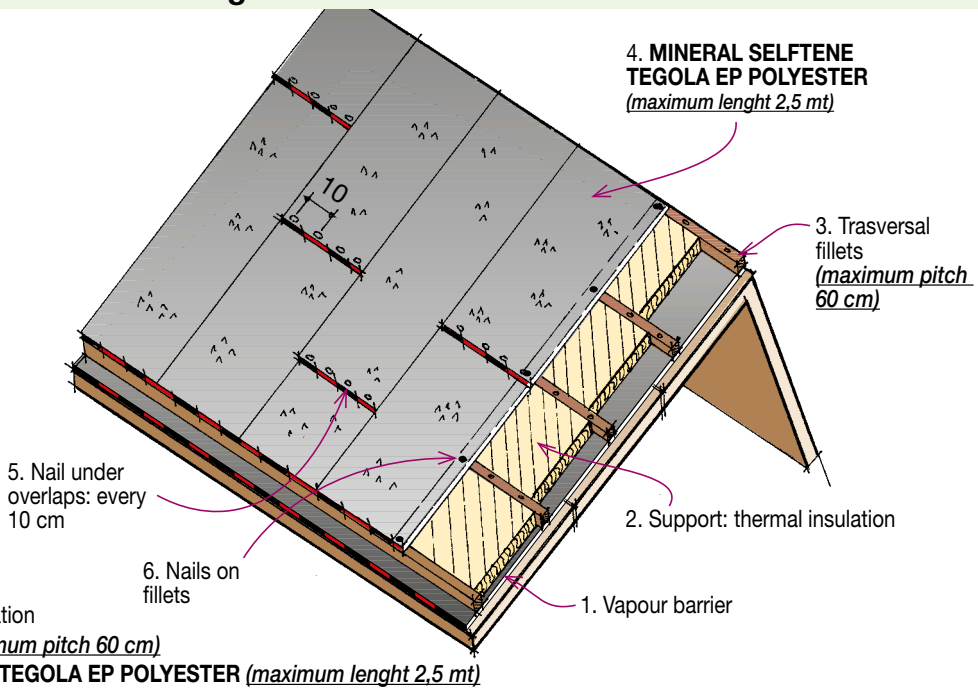
Problem: APPLICATION ON WOODEN ROOF
Solution: with membrane perpendicular to the gutter line



STRATIFIED ELEMENTS
1. Wooden surface
2. **MINERAL SELFTENE TEGOLA EP POL.** *(maximum lenght 4,0 mt)*
3. Nail under overlaps: every 20 cm
4. Nail under overlaps: every 10 cm

LAYING METHOD - Maximum slope: 35%

Problem: APPLICATION ON THERMAL INSULATION
Solution: The correct application is only with membrane perpendicular to the gutter line and transversal fillets



STRATIFIED ELEMENTS
1. Vapour barrier
2. Support: thermal insulation
3. Trasversal fillets *(maximum pitch 60 cm)*
4. **MINERAL SELFTENE TEGOLA EP POLYESTER** *(maximum lenght 2,5 mt)*
5. Nail under overlaps: every 10 cm
6. Nails on fillets

LAYING METHOD - Maximum slope: 35%

1. Take the silicone film off

2. Apply the self-adhesive membrane

3. Nail the membrane on the strip without adhesive

4. Apply the following membrane

5. Cover the overlap

6. Take the silicone strip off

7. Weld the head overlaps with HEADCOLL

8. Press the whole before applying the tiles

ATTENTION

Nails and pressing on application surface are basic actions to avoid sliding of membranes and tiles

TECHNICAL CHARACTERISTICS

	Standard	T	MINERAL SELFTENE TEGOLA EP POLYESTER	
Reinforcement			"Non-woven" composite polyester stabilized with fibreglass	
Aeric mass	EN 1849-1	±10%	3.5 kg/m²	4.0 kg/m²
Roll size	EN 1848-1	-1%	1×10 m	1×10 m
Watertightness	EN 1928 – B	≥	60 kPa	
Maximum tensile force L/T	EN 12311-1	-20%	400/300 N/50mm	
Elongation L/T	EN 12311-1	-15% V.A.	35/40%	
Resistance to tearing (nail shank) L/T	EN 12310-1	-30%	140/140 N	
Dimensional stability L/T	EN 1107-1	≤	-0.25/+0.10%	
Flexibility to low temperature	EN 1109	≤	-15°C	
Flow resistance at high temperature	EN 1110	≥	100°C	
Water vapour transmission • after ageing	EN 1931 EN 1296-1931	-20% -20%	- -	
Res. to water penetration • after ageing	EN 1928 EN 1296-1928		W1 W1	
Reaction to fire Euroclass	EN 13501-1		E	
External fire performance	EN 13501-5		F roof	
Thermal specifications				
Thermal conductivity			0.2 W/mK	0.2 W/mK
Heat capacity			4.20 KJ/K	4.80 KJ/K

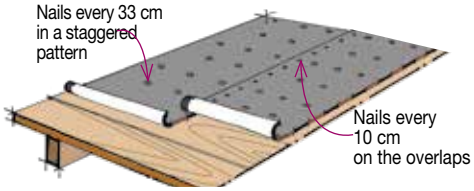
(See previous)

APPLICATION FIELDS

MINERAL SELFTENE TEGOLA EP POLYESTER is used mainly as under-tile waterproofing on wooden boards with or without thermal insulation or on thermal insulation products that are resistant to compression up to a maximum pitch of 35%, where the tiles are laid directly on the membrane.
The laying methods are described in the specific "Under-tile" Guide with waterproofing membranes Best-Adhesive.

METHOD OF USE AND PRECAUTIONS

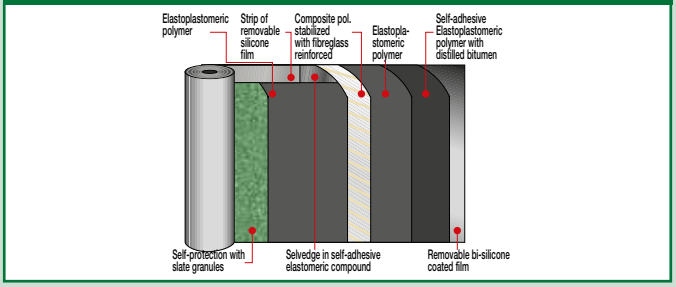
- **SELFTENE** membrane adhere to the most common construction materials: metal surfaces, Plywood, OSB, polystyrene foam and extruded foam, polyurethane foam coated with bitumen-coated feltpaper, on ROLLBASE HOLLAND, etc. On porous surfaces such as cement and brick/tile, on an old bituminous coat, etc., the surface to be covered should be prepared with a coat of 250 or 500 g/m² INDEVER PRIMER E primer.
- To prevent humidity building up and keep the wood dry and to allow the roof to be disassembled to recover the clean boards and prevent contact with fresh, resinous wood which can stain the underlying material, before gluing the adhesive exposed membrane to the old boards, on wooden roof boards or boards exposed directly to occupied spaces, first cover them with the ROLLBASE HOLLAND vapour separation and diffusion layer nailed on in a staggered pattern with flat head nails every 33 cm and 10 cm on the overlaps. The adhesive membrane is then installed over this layer.



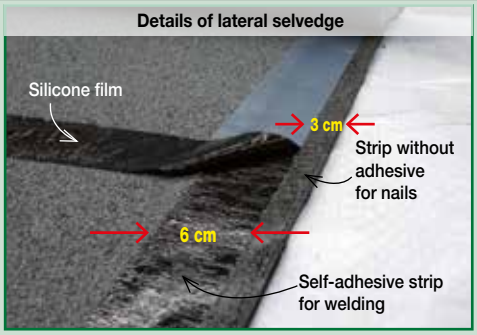
- Visible sheets applied vertically should be secured mechanically at the end.
- Store the rolls in a dry place indoors and take them to the laying location only when about to be applied.
- Open the package immediately before laying.
- Distilled polymer-bitumen membranes are thermoplastic products and, therefore, they soften in the hottest hours of summer days, whereas they harden in cold weather and the product's adhesive power is therefore reduced.
- **The application of undertile membrane always need to be completed with mechanical fixing for any slopes of the roof.**
- **Suspend laying by self-adhesion when the temperature falls below +5°C and/or facilitate laying with hot air appliances or with a flame at temperatures below +10°C and/or in particularly humid conditions.**
- **Press always membranes before applying the tiles.**

COMPOSITION OF THE MEMBRANE

MINERAL SELFTENE TEGOLA EP POLYESTER



Details of lateral selvedge



PRODUCT FINISHING

SELF-PROTECTION WITH SLATE GRANULES. On the visible face of the membrane, a protective coating made up of slate granules of various colours is hot bonded. This mineral shield protects the membrane from ageing caused by UV rays.

Finitura FLOREALE - AUTOPROTEZIONE MINERALE. Sulla faccia della membrana destinata a rimanere a vista, viene incollata a caldo una protezione formata da scagliette di ardesia di diverso colore. Questo scudo minerale protegge la membrana dall'invecchiamento provocato dei raggi U.V.

REMOVABLE SILICONE-COATED FILM. *The lower face of the membrane is covered in a silicone-coated film which preserves the adhesive mix.*

• FOR ANY FURTHER INFORMATION OR ADVICE ON PARTICULAR APPLICATIONS, CONTACT OUR TECHNICAL OFFICE • IN ORDER TO CORRECTLY USE OUR PRODUCTS, REFER TO INDEX TECHNICAL SPECIFICATIONS •

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