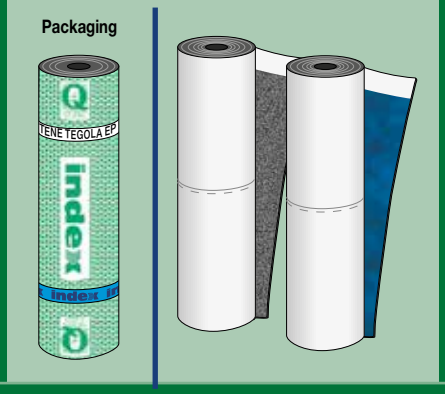
Packaging



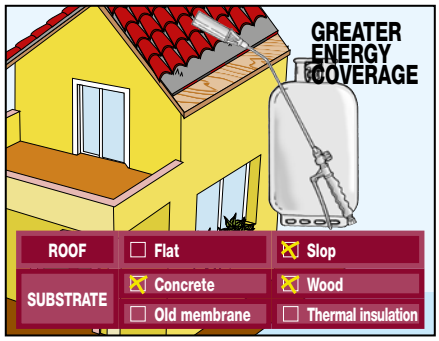
TECTENE TEGOLA EP POLYESTER
MINERAL TECTENE TEGOLA EP POLYESTER

HEAT ADHESIVE WATERPROOFING UNDER-TILE MEMBRANE IN ELASTOPLASTOMERIC POLYMER BITUMEN CONTAINING DISTILLED BITUMEN, PLASTOMERS AND ELASTOMERS. THE LOWER FACE IS COATED WITH A HEAT-ADHESIVE MIX FOR LAYING SHINGLES, CURVED TILES AND CANADIAN-STYLE BITUMINOUS SHINGLES

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	TORCH APPLICATION	NAILING

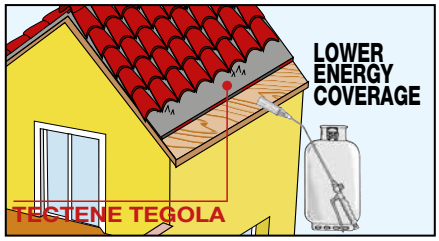
1 PROBLEM



HOW TO APPLY VERY THICK REINFORCED PROFESSIONAL MEMBRANES FOR UNDER-TILE WATERPROOFING, AND ALSO SAVE ON ENERGY COSTS

To ensure good adhesion of standard under-tile membranes, a considerable use of the torch is necessary, leading to evident problems of safety as well as of energy consumption.

2 SOLUTION



TECTENE TEGOLA EP is a very thick under-tile membrane with an extremely heat sensitive lower face. It becomes adhesive even if heated with hot air appliances or with a 'light' flame.
This membrane contains a mix of elastoplastomeric polymer bitumen based on distilled bitumen for industrial use and a pool of thermoplastic polymers. The mix is heat and age resistant; its heat resistance exceeds 120°C, which makes it suitable for producing membranes for laying shingles directly over them.
The upper face of the **MINERAL TECTENE TEGOLA EP POLYESTER** version is spread with non-slip slate flakes, on which the cement mortar strips laid for fastening the shingle or curved tile courses adhere. The upper face of **TECTENE TEGOLA EP POLYESTER** is coated by Texflamina, a thin layer of polypropylene fibres, which allows the torch bonding of Canadian-style shingles or of another layer of membrane.
The membrane reinforcement consists of a non-woven polyester fabric, stabilized with fibre glass, which gives the membrane high mechanical resistance combined with good dimensional stability in the heat.
Both membranes have their lower face and the overlapping strip coated with a special heat adhesive elastomeric compound. This is protected by a bi-silicone coated film, which can be activated by heat, thus ensuring strong long-lasting adhesion, with minimum use of energy, and saving both time and gas. On the lower face the double-sided silicone-coated film is split into two overlapping halves.

ADVANTAGES

- **Safe traditional laying but quicker.**
- **Reduced gas consumption.**

APPLICATION FIELDS

TECTENE TEGOLA EP and **MINERAL TECTENE TEGOLA EP** are designed for under-tile waterproofing, up to a maximum pitch of 35%, with or without heat insulation, on laying surfaces over which torching is permitted, albeit with a very light flame.
This solution is recommended for use in the hot season and in climatic zones where the sun's rays reinforce membrane adhesion, thus minimising torching when laying and confirming long-term adhesion too.
Membranes laid under tiles must always also be fastened mechanically for all roof pitches. The laying methods are described in the specific publication regarding "Under-tile with super-adhesive membranes".

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

EN 13707 - REINFORCED BITUMEN SHEETS FOR ROOF WATERPROOFING

- **Under-layer**
  - TECTENE TEGOLA EP POLYESTER
- **Upper layer in multi-layer systems without permanent heavy surface protection**
  - MINERAL TECTENE TEGOLA EP POLYESTER
  - TECTENE TEGOLA EP POLYESTER

EN 13859-1 - UNDERLAY FOR DISCONTINOUS ROOFING

- MINERAL TECTENE TEGOLA EP POLYESTER
- TECTENE TEGOLA EP POLYESTER

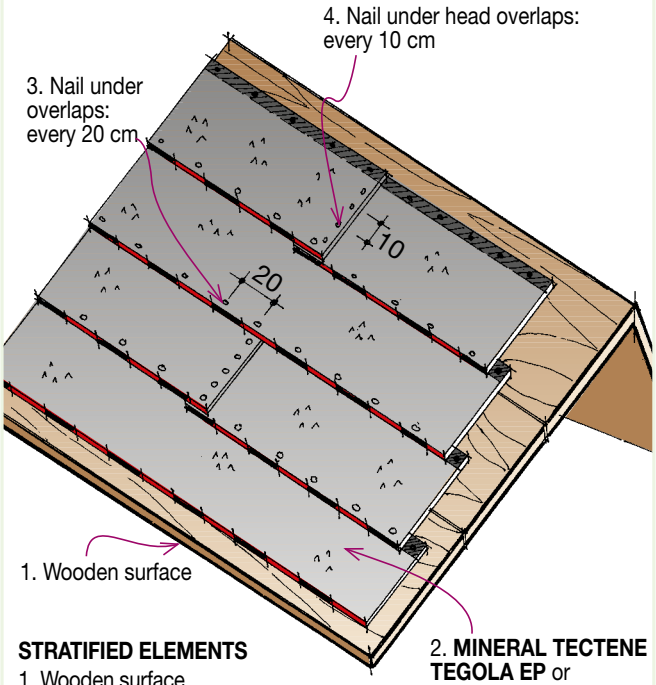
METHOD OF USE AND PRECAUTIONS

The membrane should be laid with traditional techniques, taking care not to remove the silicone coated film when aligning and recoiling the rolls, but at the same time as you use the torch.
Store the rolls in a dry place indoors and take them to the laying location only when about to be applied.
The operator should remember that polymer bitumen membranes are thermoplastic products that soften in the sun and harden in the cold, becoming less adhesive. Consequently, s/he must adjust the degree of heating.

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

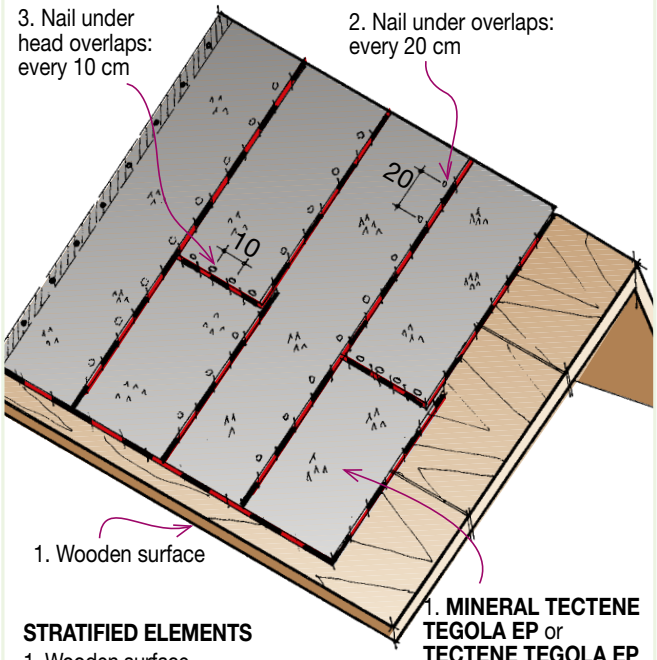
LAYING METHOD - Maximum slope: 35%

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



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

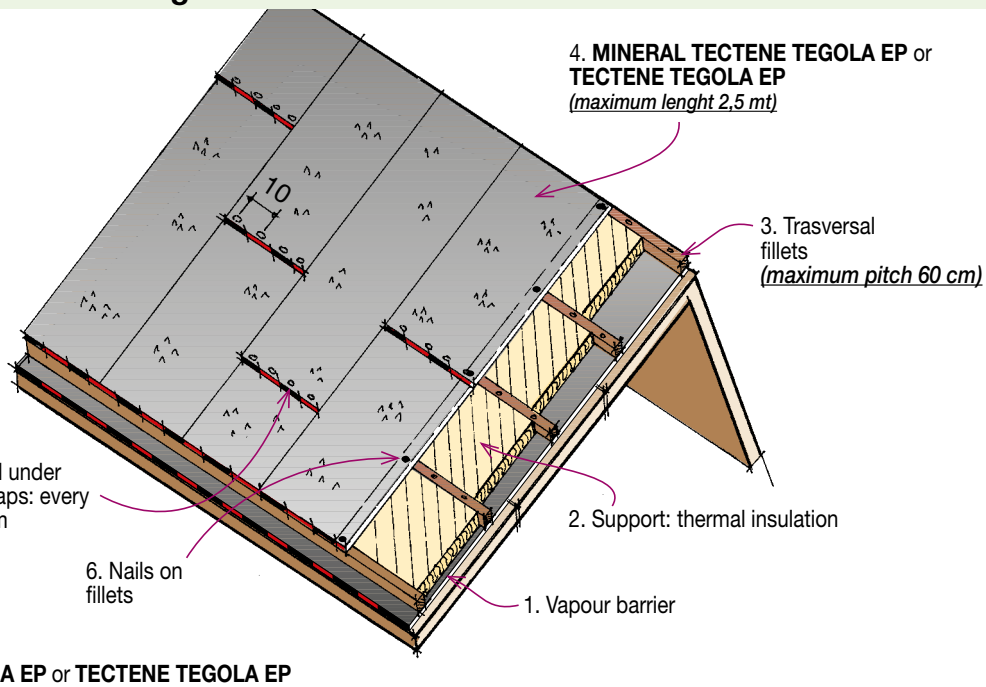
Problem: APPLICATION ON WOODEN ROOF
Solution: with membrane perpendicular to the gutter line



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

LAYING METHOD - Maximum slope: 35%

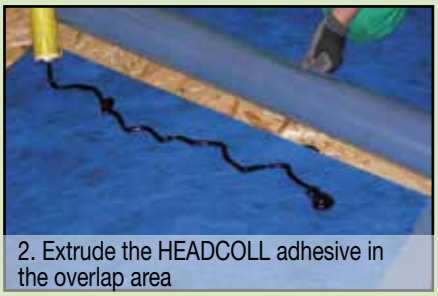
Problem: APPLICATION ON THERMAL INSULATION
Solution: The correct application is only with membrane perpendicular to the gutter line and transversal fillets



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

LAYING METHOD - TECTENE TEGOLA EP POLYESTER - Maximum slope: 35%


1. Smooth-off the corner of the upper edge of the overlap

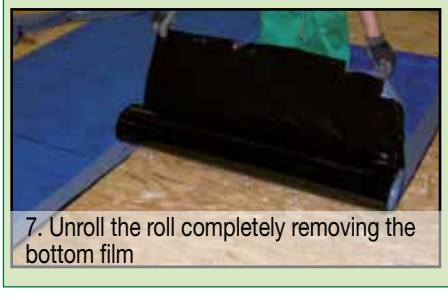

2. Extrude the HEADCOLL adhesive in the overlap area


3. Place the upper edge on the adhesive spread


4. Carefully press the overlap area


5. Nail the selvedge of the sheets previously bonded


6. Seal the smoothed line with HEADCOLL


7. Unroll the roll completely removing the bottom film


8. Remove the double-sided silicone-coated film protecting the adhesive selvedge below


9. Torch the Canadian-style shingles such as COVERTILE on the Texflamina finish

LAYING METHOD - MINERAL TECTENE TEGOLA EP POLYESTER - Maximum slope: 35%

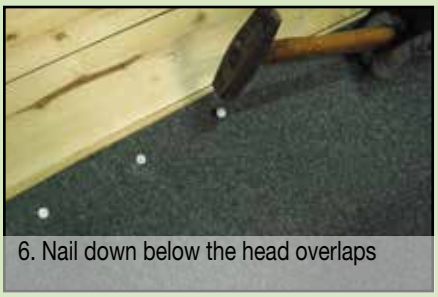

1. Remove the silicone-coated film


2. Peel off the silicone-coated film


3. Torch lay the MINERAL TECTENE TEGOLA EP membrane


4. Remove the double-sided silicone-coated film protecting the adhesive selvedge below


5. Nail down below the side overlaps


6. Nail down below the head overlaps


7. Torch lay the next MINERAL TECTENE TEGOLA EP membrane


8. Lay the shingles

TECHNICAL CHARACTERISTICS

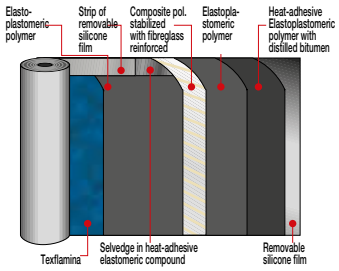
	Standard	T	TECTENE TEGOLA EP POLYESTER	MINERAL TECTENE TEGOLA EP POLYESTER	
Reinforcement			"Non-woven" composite polyester stabilized with fibreglass	"Non-woven" composite polyester stabilized with fibreglass	
Thickness	EN 1849-1	±0,2	3 mm	–	–
Mass per unit area MINERAL	EN 1849-1	±15%	–	3.5 kg/m²	4.0 kg/m²
Roll size	EN 1848-1	-1%	1×10 m	1×10 m	1×10 m
Watertightness	EN 1928 – B	≥	60 kPa	60 kPa	
Maximum tensile force L/T	EN 12311-1	-20%	400/300 N/50mm	400/300 N/50mm	
Elongation L/T	EN 12311-1	-15% V.A.	35/40%	35/40%	
Resistance to tearing (nail shank) L/T	EN 12310-1	-30%	140/140 N	140/140 N	
Dimensional stability L/T	EN 1107-1	≤	-0.25/+0.10%	-0.25/+0.10%	
Flexibility to low temperature	EN 1109	≤	-15°C	-15°C	
Flow resistance at high temperature	EN 1110	≥	100°C	100°C	
Res. to water penetration • after ageing	EN 1928 EN 1296-1928	-20% -20%	W1 W1	W1 W1	
Reaction to fire Euroclass	EN 13501-1		E	E	
External fire performance	EN 13501-5		F roof	F roof	
Thermal specifications					
Thermal conductivity			0.2 W/mK	0.2 W/mK	0.2 W/mK
Heat capacity			3.90 KJ/K	4.20 KJ/K	4.80 KJ/K

Compliant with EN 13707 in terms of the resistance factor to steam penetration for reinforced polymer-bitumen membranes, the value of μ = 20 000 may be considered, unless declared otherwise.

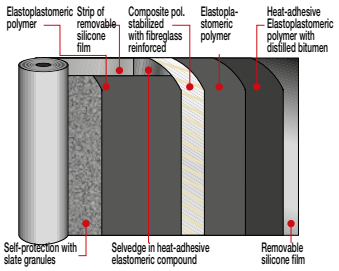
The colour of slated membranes may vary according to the storage time. The problem is resolved within 2-3 months of application and the shades become uniform, returning to their original colour. This is a normal phenomenon for this type of membranes and cannot be a reason for complaints. The same is valid for the maintenance of colour and the different shades that can be found on areas of the roof that are more or less exposed for artificially coloured membranes.

COMPOSITION OF THE MEMBRANE

TECTENE TEGOLA EP POLYESTER



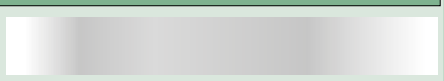
MINERAL TECTENE TEGOLA EP POLYESTER



PRODUCT FINISHING

"TEXFLAMINA" PP NON-WOVEN. Multifunction, protection finishing material made up of a non-woven flame-melting synthetic-fibre fabric, coupled to the upper face of the membrane. It prevents coils from sticking to the roll, improves foot traffic resistance during installation, enhances the adhesion of paints, glues and extends their life.

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.



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

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