

TECTENE REROOF BASE STRIP EP POLYESTER MINERAL TECTENE REROOF STRIP EP POLYESTER

ELASTOPLASTOMERIC DISTILLED POLYMER-BITUMEN HEAT-ADHESIVE
WATERPROOFING MEMBRANE FOR SEMI-ADHESION REROOFING.
LOWER FACE COATED WITH HEAT-ADHESIVE STRIPS

GRANTS **LEED** CREDITS

CATEGORY	CHARACTERISTICS	ENVIRONMENTAL						METHOD OF USE				
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

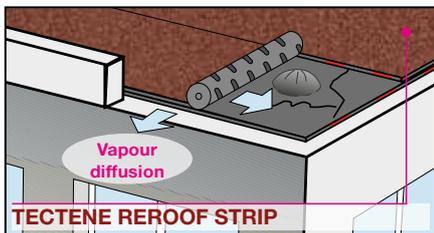
1 PROBLEM



HOW TO AVOID BUBBLES AND SPREADING SPLITS WHEN REROOFING AN OLD DAMP WATERPROOF COVERING WITHOUT HAVING TO LAY PERFORATED SCREENS OR OTHER SHEETS FOR SEMI-ADHESION

Old bitumen coverings may retain damp and undergo dimensional variations near splits that cause them to become unsettled. In such cases, the new roof covering has to be spot-bonded, in semi-adhesion, to eliminate water vapour and to avoid bubbles, but also to prevent splits from spreading from the old waterproof covering to the new one. Torch spot-bonding of normal membranes does not guarantee uniform distribution of the connection and does not determine a sufficient micro air space to diffuse the vapour, plus there is the risk of bonding excessively and favouring bubbles or of bonding too little and allowing the wind to blow away the new waterproof covering. To resolve the problem, you have to use additional sheets, perforated screens or special sheets, which are more effective and secure, with the lower face embossed or with adhesive strips.

2 SOLUTION



By using the **TECTENE REROOF STRIP EP** membrane there is no need to add any other special sheets, because the lower face is coated with strips of a special adhesive elastomeric compound that is activated by heat, which determines a strong, safe and long-lasting semi-adhesion bond. The contact surface is about 40%, much higher than that of perforated screens, which do not exceed 20%, thus guaranteeing a much higher resistance to wind in view of the larger adhesion surface and to the superior level of adhesion.

The resistance to wind of the heat-adhesive strips has been tested pursuant to test TR 005 envisaged in the guidelines for mechanically secured systems ETAG 006 on polyurethane foam insulation, with faces coated with a membrane reinforced with fibreglass felt, nailed to the support, exceeding the maximum resistance of 10 kPa envisaged by the aforesaid test. The elastic bond and the distance between the strips also ensure the efficient distribution of mechanical strain and prevent the splits in the old covering from spreading. The strips protrude from the body of the membrane and together with the remaining 60 % of the surface that is sanded and not glued, they determine a micro air space to enable the diffusion of water vapour and to prevent the formation of bubbles. The **TECTENE REROOF STRIP EP** membranes

are made of distilled polymer-bitumen selected for industrial use with a high added content of elastomeric and plastomeric polymers such to obtain a "phase inversion" amalgam. The continuous phase of this amalgam consists of the polymer in which the bitumen is dispersed, where the characteristics are determined by the polymer matrix and not by the bitumen, even if the latter is the majority ingredient. The performance of the bitumen is therefore increased, and durability and resistance to low and high temperatures are improved, whilst the already excellent adhesion and waterproofing properties of the bitumen remain unaltered. The membranes have a composite reinforcement in non-woven rot-proof polyester fabric stabilised with fibreglass, which gives them good dimensional stability combined with high mechanical resistance and elasticity.

MINERAL TECTENE REROOF STRIP EP POLYESTER has the upper face self-protected with slate granules, glued and pressed hot, except of a side overlap strip without slate and protected with Flamina hot-melt film that is torching to seal the overlap joint.

TECTENE REROOF BASE STRIP EP POLYESTER has the upper face sanded to ensure a firm bond with the overlying layer or painting in the case of single-layer applications. The lower adhesive-treated face

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

EN 13707 - REINFORCED BITUMEN SHEETS FOR ROOF WATERPROOFING

- Under layer or intermediate layer in multi-layer systems without permanent heavy surface protection
 - TECTENE REROOF STRIP EP POLYESTER
- Exposed single-layer
 - TECTENE REROOF STRIP EP POLYESTER
 - MIN. TECTENE REROOF STRIP EP POLYESTER
- Single-layer under heavy protection
 - TECTENE REROOF STRIP EP POLYESTER

of both membranes too is protected with Flamina film, which is torched to activate the adhesive in the laying phase.

APPLICATION FIELDS

MINERAL TECTENE REROOF STRIP EP POLYESTER is designed for single-layer reroofing of old bituminous coverings, whereas **TECTENE REROOF BASE STRIP EP POLYESTER** can be used both as a single-layer and as the first layer of double-layer reroofing on which a further membrane is subsequently torch-bonded. Both types can be used on flat or pitched roofs, up to a pitch of 15% for gradient roofs, bonding must be integrated with a mechanical fixing method at the top ends of the sheets. The membranes are designed to be top layer that remain visible and, in windy areas, perimeter mechanical fixing must be used in addition to bonding.

ADVANTAGES

- The sheet to be used for semi-independence is supplied with the waterproof membrane.
- Thickness of heat-adhesive strips determine a thin interspace for vapour diffusion.
- The heat-adhesive elastomeric strips provide greater adhesion.

TECHNICAL CHARACTERISTICS

	Standard	T	TECTENE REROOF BASE STRIP EP POLYESTER	MINERAL TECTENE REROOF STRIP EP POLYESTER
Reinforcement			"Non-woven" composite polyester stabilized with fibreglass	"Non-woven" composite polyester stabilized with fibreglass
Thickness	EN 1849-1	±0,2	4 mm	-
Weight MINERAL	EN 1849-1	±15%	-	4.5 kg/m ² 5.0 kg/m ²
Roll size	EN 1848-1	-1%	1x10 m	1x10 m 1x10 m
Watertightness	EN 1928 - B	≥	60 kPa	60 kPa
Shear resistance L/T	EN 12317-1	-20%	600/400 N/50 mm	600/400 N/50 mm
Maximum tensile force L/T	EN 12311-1	-20%	700/500 N/50 mm	700/500 N/50 mm
Elongation L/T	EN 12311-1	-15% V.A.	40/45%	40/45%
Resistance to impact	EN 12691 - A		1250 mm	1250 mm
Resistance to static loading	EN 12730 - A		15 kg	15 kg
Resistance to tearing (nail shank) L/T	EN 12310-1	-30%	160/200 N	160/200 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
Reaction to fire Euroclass	EN 13501-1		E	E
External fire performance	EN 13501-5		F roof	F roof

Technical specification for resistance to wind (EN 16002)

with polyurethane	EN 16002		$\Delta_{adm} = 10000 \text{ N/m}^2$	$\Delta_{adm} = 10000 \text{ N/m}^2$
with concrete	EN 16002		$\Delta_{adm} = 10000 \text{ N/m}^2$	$\Delta_{adm} = 10000 \text{ N/m}^2$
with bituminous membranes	EN 16002		$\Delta_{adm} = 10000 \text{ N/m}^2$	$\Delta_{adm} = 10000 \text{ N/m}^2$

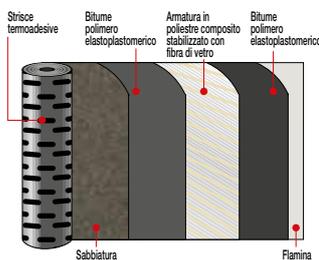
Thermal specifications

Thermal conductivity			0.2 W/mK	0.2 W/mK	0.2 W/mK
Heat capacity			5.20 KJ/K	5.40 KJ/K	6.00 KJ/K

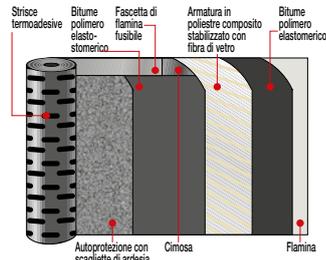
Compliant with EN 13707 in terms of the resistance factor to steam penetration for reinforced polymer-bitumen membranes, the value of $\mu = 20000$ may be considered, unless declared otherwise.

COMPOSITION OF THE MEMBRANE

TECTENE REROOF BASE STRIP EP POLYESTER



MINERAL TECTENE REROOF STRIP EP POLYESTER



PRODUCT FINISHING



"FLAMINA" PE FOIL. Plastic protection film helping prevent coils from sticking to the roll. As it withdraws under the action of the flame right during its installation, it signals the best melting point in order to correctly glue the membrane to the brackets and rises. When not heated, it can be used as a sliding layer.



SAND BLASTING. It is carried out by means of the hot adhesion of sand from minerals which are free from free willow, avoids the gluing of the coil turns and acts as adhesion intermediate agent for hot and cold applied paints and adhesives.



FLAMINA/SAND ON TOP OF HEAT ADHESIVE STRIPS



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.

• 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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Construction Systems and Products

Via G. Rossini, 22 - 37060 Castel D'Azzano (VR) - Italy - C.P.67
T. +39 045 8546201 - F. +39 045 518390

Internet: www.index-spa.com
Informazioni Tecniche Commerciali
tecom@indexspa.it
Amministrazione e Segreteria
index@indexspa.it
Index Export Dept.
index.export@indexspa.it



The colour of elated membranes may vary according to the storage time. The problem is resolved within 2-3 months of installation of the sheets, but not for the 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.

the numerous possible uses and the possible interference of conditions or elements beyond our control, we assume no responsibility regarding the results which are obtained. The purchasers, of their own accord and under their own responsibility, must establish the suitability of the product for the envisaged use.

The figures shown are average indicative figures relevant to current production and may be changed or updated by INDEX 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. Considering