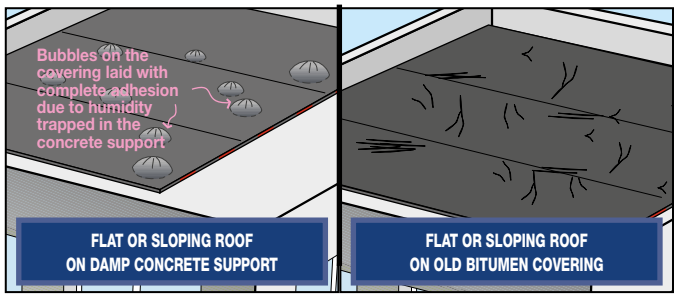
VAPORDIFFUSER STRIP/V

SPECIAL ELASTOPLASTOMERIC POLYMER-BITUMEN WATERPROOFING MEMBRANE WITH HEAT-ADHESIVE STRIPS SPREADED ON THE ITS UNDERSIDE FOR HUMIDITY DIFFUSION AND DISTRIBUTION OF MOVEMENT ACROSS THE LAYING SURFACE, FOR SEMI-ADHESION ON DAMP CONCRETE SURFACES AND RENOVATION ON OLD WATERPROOF BITUMEN COVERINGS AND ON INSULATING PANELS SUBJECT TO MOVEMENT

GRANTS *LEED* CREDITS

CATEGORY	CHARACTERISTICS		ENVIRONRMENTAL							METHOD OF USE	
EP S		Reazione al fuoco		ASBESTOS FREE	TAR FREE	CHLORINE FREE					
SPECIAL ELASTOPLASTOMERIC FOR SPECIFIC USES	WATERPROOF	REACTION TO FIRE	ECO GREEN	ASBESTOS FREE	TAR FREE	CHLORINE FREE	RECYCLABLE	NON DANGEROUS WASTE	EXHAUSTED OIL FREE	TORCH APPLICATION	HOT AIR APPLICATION

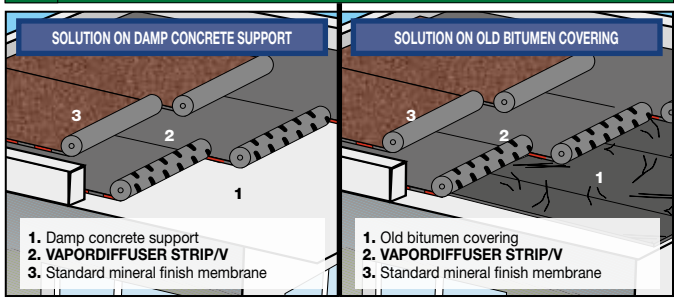
1 PROBLEM



HOW TO PREVENT THE FORMATION OF BUBBLES ON THE WATERPROOF COVERING LAID ON DAMP LAYING SURFACES, BOTH MADE OF CONCRETE AND OLD DETERIORATED BITUMEN COVERINGS

Complete adhesion of a waterproof covering on damp laying surfaces made of concrete or old deteriorated bitumen coverings can lead to the formation of bubbles that can affect the hold of the covering over time. Semi-adhesion application with perforated screens on uneven laying surfaces is often not effective and can lead to the waterproof covering not being sufficiently stuck onto sloping roofs and the risk of it blowing away in a storm.
Semi-adhesion application is also used to distribute and therefore soften mechanical strain on the laying surface.

2 SOLUTION



VAPORDIFFUSER STRIP/V is the membrane created by INDEX to solve the problem of vapour diffusion and at the same time guarantee excellent long-lasting adhesion.
The lower face of **VAPORDIFFUSER STRIP/V** is spreaded with a strip of a special elastomeric heat adhesive compound, activated with a torch, hence producing strong, safe and long-lasting adhesion, which allows laying even without using a primer.
The surface contact is about 40%, which is much higher than for perforated screens, where it does not exceed 20%. The remaining 60% of the surface is sand blasted and not stuck. Between this and the laying surface there is a tiny air space allowing the diffusion of water vapour and the distribution of mechanical strain.
VAPORDIFFUSER STRIP/V membrane consists of distilled bitumen selected for industrial use, with a high elastomeric and plastomeric polymer content, such that a "phase inversion" alloy is obtained, whose continuous phase is made up of the polymer in which the bitumen is finely dispersed; the characteristics are determined by the polymer matrix, which improves durability and resistance to high and low temperatures, thus maintaining the bitumen's already excellent qualities of adhesion and waterproofing. **VAPORDIFFUSER STRIP/V** is strengthened with a rot-proof reinforced fibreglass felt and is covered, both on its lower and on its upper face, by the hot-melt Flamina film.

ADVANTAGES

- **Since it has a higher adhesion surface than perforated screens, it offers greater resistance to the wind.**
- **Unlike perforated screens it contributes to the thickness of the waterproof covering.**

APPLICATION FIELDS

VAPORDIFFUSER STRIP/V is used as a first layer of the waterproof covering both for new works and renovations, on all damp surfaces, which can cause bubbles on waterproofing.
It is used for direct laying on concrete of a covering that remains visible or for renovation on old bitumen coverings that could still withhold some humidity.
The water vapour can be disposed of through aerators, which can easily be connected to **VAPORDIFFUSER STRIP/V**.
VAPORDIFFUSER STRIP/V can also be used on laying surfaces like some types of insulating panels subject to movements which could damage the waterproof covering.

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
- VAPORDIFFUSER STRIP/V

METHOD OF USE AND PRECAUTIONS

It is heat bonded onto the laying surface including the overlaps by 6 cm longitudinally and 10 cm across the roll.
It can be used on flat and sloping roofs, up to a gradient of 15%, unless the application is integrated with mechanical fixing at the ends of the sheets for higher gradients.
Given the high adhesiveness of the strips, it can be applied without a coat of primer on clean, dry concrete surfaces and on old slate-coated coverings.
In particularly windy areas, it is necessary to integrate the application by mechanically fixing the waterproofing layers.

TECHNICAL CHARACTERISTICS

	Standard	T	VAPORDIFFUSER STRIP/V
Reinforcement			Fibreglass
Weight	EN 1849-1	±10%	2 kg/m²
Roll size	EN 1848-1	–1%	1×15 m
Watertightness	EN 1928 – B	≥	60 kPa
Maximum tensile force L/T	EN 12311-1	–20%	300/200 N/50mm
Elongation L/T	EN 12311-1	–15% V.A.	2/2%
Resistance to tearing (nail shank) L/T	EN 12310-1	–30%	70/70 N
Flexibility to low temperature	EN 1109	≤	–15°C
Reaction to fire Euroclass	EN 13501-1		E
External fire performance	EN 13501-5		F roof
Thermal specifications			
Thermal conductivity			0.2 W/mK
Heat capacity			2.60 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.

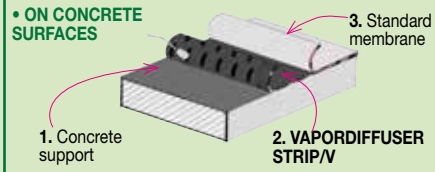
METHOD OF USE

1. Cleaning the old covering

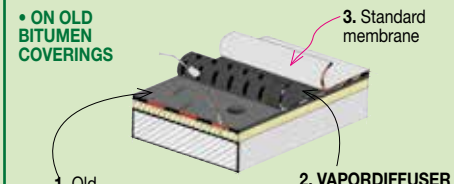
2. Laying **VAPORDIFFUSER STRIP/V** on an old membrane

DOUBLE-LAYER WATERPROOFING

• ON CONCRETE SURFACES

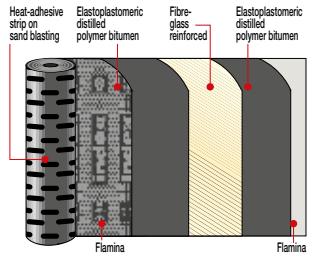


• ON OLD BITUMEN COVERINGS



COMPOSITION OF THE MEMBRANE

VAPORDIFFUSER STRIP/V



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.

FLAMINA/SAND ON TOP OF HEAT ADHESIVE STRIPS

• 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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