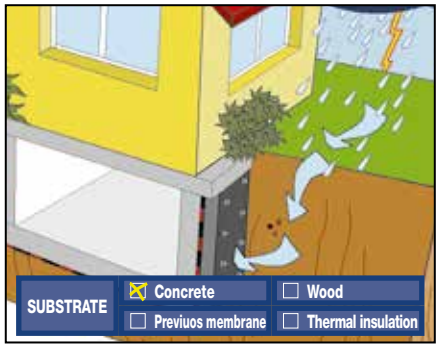
VERTIFLEX POLYESTER

ELASTOPLASTOMERIC DISTILLED POLYMER-BITUMEN WATERPROOFING MEMBRANE. HIGHLY ADHESIVE, HIGHLY RESISTANT, AND VERY THICK, FOR WATERPROOFING FOUNDATION WALLS AND VERTICAL SURFACES

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	ROOT RESISTANCE	REACTION TO FIRE	ECO GREEN	ASBESTOS FREE	TAR FREE	CHLORINE FREE	RECYCLABLE	NON DANGEROUS WASTE	EXHAUSTED OIL FREE	TORCH APPLICATION	HOT AIR APPLICATION	NAILING

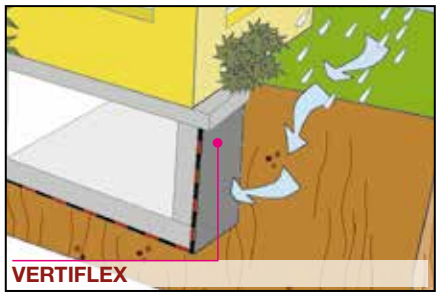
1 PROBLEM



HOW TO EASILY WATERPROOF VERTICAL SURFACES WITH POLYMER BITUMEN MEMBRANES

Waterproofing lining operations, with polymer-bitumen membranes, on the different geometries of a building, are more difficult on vertical surfaces. This applies especially to foundation walls, where the operator works in more uncomfortable conditions than those of flat or slightly sloping parts of the roof. In many cases, several operators are required, thus increasing application costs.

2 SOLUTION



VERTIFLEX POLYESTER is the membrane designed by Index to solve waterproofing application problems of foundation walls. In these cases, the membranes to be used mainly for lining roofs, can present greater difficulties which prevent correct execution and adhesion during torching.

VERTIFLEX POLYESTER is a membrane consisting of a mix containing distilled bitumen, selected for industrial use.

A high content of elastomeric and plastomeric polymers is added to it to obtain a polymer-bitumen alloy "with phase inversion".

The matrix of this alloy, which consists of polymeric components in which the bitumen is dispersed, determines its main characteristics.

The thickness of the mix is reinforced with a non-woven single strand polyester fabric, which resists punching and tearing.

It also has high ultimate elongation and greater than standard thickness, which gives the roll greater support when the operator has to sustain and torch it simultaneously.

The reinforcement is central in the thickness of the membrane and is lined and impregnated with a mix which is softer and more adhesive than the one used for standard membranes. However, it is protected on both faces of the foil with Flamina, a plastic hot-melt film which prevents the rolls from glueing, and also prevents sticking on the top face during heating, when installing on foundation walls and if the membrane is occasionally used on a horizontal surface.

Upon request the polymer-distilled bitumen compound of **VERTIFLEX** can be admixtured with specific antiroot agent phenoxy-fatty acid ester.

ADVANTAGES

- **The roll does not change to oval shape during heating.**
- **Greater adhesion.**
- **The membrane faces are finished to avoid sticking.**

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

EN 13969 - REINFORCED BITUMEN SHEETS FOR ROOF WATERPROOFING

• Membranes for foundations

- VERTIFLEX POLYESTER

APPLICATION FIELDS

VERTIFLEX POLYESTER is mainly used to facilitate lining foundation walls. For this use, it provides tear- and perforation-resistant adhesive waterproof protection during burying operations.

This membrane is classified according to UNI EN 13969 standard and is used to prevent damp rising from the soil.

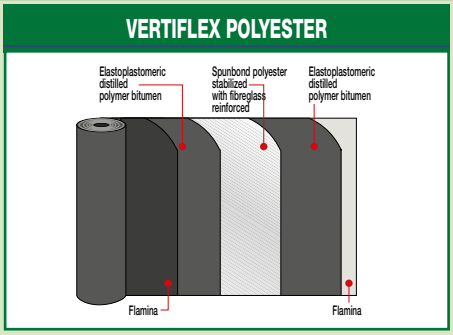
TECHNICAL CHARACTERISTICS

	Standard	T	VERTIFLEX POLYESTER
Reinforcement			"Non-woven" Spunbond polyester stabilized with fibreglass
Weight	EN 1849-1	±10%	4 kg/m²
Roll size	EN 1848-1	–1%	1×10 m
Watertightness • after ageing	EN 1928 – B EN 1926-1928	≥ ≥	60 kPa 60 kPa
Shear resistance L/T	EN 12317-1	–20%	500/300 N/50mm
Maximum tensile force L/T	EN 12311-1	–20%	650/400 N 50 mm
Elongation L/T	EN 12311-1	–15% V.A.	40/40%
Resistance to impact	EN 12691 – A		1250 mm
Resistance to static loading	EN 12730 - A EN 12730 - B		15 kg 20 kg
Resistance to tearing (nail shank) L/T	EN 12310-1	–30%	150/180 N
Flexibility to low temperature	EN 1109	≤	–10°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			5.20 KJ/K

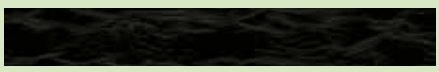
Conforme EN 13707 come fattore di resistenza al passaggio del vapore per le membrane bitume distillato polimero armate, ove non dichiarato, può essere assunto il valore μ = 20 000.

COMPOSITION OF THE MEMBRANE

VERTIFLEX 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.

• 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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