

GRANTS *LEED* CREDITS





HOW TO GLUE A SINGLE-LAYER WATERPROOOFING COAT ON POLYSTYRENE FOAM WITHOUT PROTECTIVE SHEETS AND WITHOUT BURNING IT

membranes are laid, the insulation of a roor consists of polystyrene parlets, before the waterproofing tect the insulation against the reflection of the flame used for applying the waterproofing layers above. The layer must also be mechanically fixed if it's top layer. If glues are used instead, this means long setting time, creation of difficult to dispose of site waste, and emission of solvents.



AUTOTENE BASE HE/V is the basic additional membrane, designed by INDEX to solve the problem of direct laying on the polystyrene foam, without using any nails or glue. The lower face of AUTO-TENE BASE HE/V is spreaded with a special heatactivated adhesive. When the membrane is placed on the insulating panel, without the silicone coated film that protects the adhesive face, the indirect heat generated from the heat bonding of the overlying layer is enough to cause the adhesion of the base layer in contact with the polystyrene foam on which it is resting and on the overlaps, at the same time, resulting in long-lasting and secure adhesion. With the energy needed for applying one layer, two can be bonded using AUTOTENE BASE HE/V limiting the emission of fumes and smells, preventing the exhalation of solvents and the production of waste that is difficult to dispose of. The resulting benefit is the use of an economically advantageous type of thermal insulation. AUTOTENE BASE HE/V is a waterproofing membrane made of distilled bitumen selected for industrial use with a high added content of elastomeric polymers such as to obtain a "phase inversion" mix. The continuous phase of this mix consists of the elastomer in which the bitumen is dispersed, where the characteristics are determined

ADVANTAGES

- The waterproofing coat is glued onto the polystyrene foam, without nails and adhesives.
- It doesn't need the protective layer on polystyrene foam.
- Two layers can be layed simultaneously.

by the polymer matrix and not by the bitumen, even if it is the largest ingredient. The performance of the bitumen is therefore increased, durability, resistance to low and high temperatures and elasticity are improved, thus maintaining the bitumen's already excellent adhesion and waterproofing qualities. AUTOTENE BASE HE/V is reinforced longitudinally with rot-proof fibreglass felt with high dimensional stability. The upper face of the membrane is covered with the Flamina hot-melt film, which offers quick shrinkage when the flame of the torch is applied, promoting the adhesion of the bitumen layer above. For excellent bonding of the overlaps on the upper face, there is also a selvedge protected by a double sided silicone coated strip. The lower face is spreaded with a special "hot melt" adhesive mix based on elastomers and tackifying resins, elastic also at low temperatures and which is protected by a peel-off silicone coated film divided into two overlapping halves.

AUTOTENE BASE HE/V supplied in 14 cm width strips is named JOINTENE PRO/V.

APPLICATION FIELDS

AUTOTENE BASE HE is the basic component of the insulation and single-layer waterproofing system known as "energy-saving". This system cuts the costs of heat insulation in polystyrene foam. when combined with the TECTENE BV STRIP vapour barrier (on which the insulating panels are glued with hot bitumen or adhesives), the use of AU-TOTENE BASE HE produces a "stratigraphy" with lower energy consumption and lower environmental impact (see drawing). The system can be used for flat and sloping roofs. For roof gradients of over 15%, bonding has to be integrated with mechanical fixing methods and/or battens inserted between insulated panels. This technique is also used in particularly windy areas.

The layer or "stratigraphy" system can also be





EN 13/07 - REINFORCED BITUMEN SHEETS FOR ROOF WATERPROOFING • Under layer or intermediate layer in multi-layer systems without permanent heavy surface protection - AUTOTENE BASE HE/V

EN 13970 - BITUMEN WATER VAPOUR CONTROL LAYERS - AUTOTENE BASE HE/V

used on surfaces in cement, wood or corrugated metal sheet, for both exposed and heavily protected coats. However, one must check if the flatness of the surface is sufficient to enable the insulation panel to wholly lay on the adhesive strips, avoiding any non glued "bridge areas".





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TECHNICAL CHARACTERISTICS			
	Standard	т	AUTOTENE BASE HE/V
Reinforcement			"Non-woven" composite polyester stabilized with fibreglass
Thickness	EN 1849-1	±0,2	2.0 kg/m ²
Roll size	EN 1848-1	-1%	1×15 m
Watertightness	EN 1928 - B	2	60 kPa
Shear resistance L/T	EN 12317-1	-20%	NPD
Maximum tensile force L/T	EN 12311-1	-20%	300/200 N/50 mm
Elongation after ageing 	EN 12311-1	–15% V.A.	2/2%
Resistance to impact	EN 12691 - A		_
Resistance to static loading	EN 12730 - A		_
Resistance to tearing (nail shank) L/T	EN 12310-1	-30%	70/70 N
Dimensional stability L/T	EN 1107-1	≤	_
Flexibility to low temperature	EN 1109	≤	-25°C
Flow resistance at high temperature	EN 1110	≥	100°C
Water vapour transmission after ageing 	EN 1931 EN 1296-1931	-20% -20%	μ = 100 000 NPD
Res. to water penetration • after ageing	EN 1928 EN 1296-1928		<u> </u>
Reaction to fire Euroclass	EN 13501-1		Е
External fire performance	EN 13501-5		F roof
Technical specification for resistance to wind (EN 16002)			
with polystyrene foam ≥100	EN 16002		Δ_{adm} = 6 000 N/m ²
with extruded polystyrene	EN 16002		Δ_{adm} = 6 000 N/m ²
Thermal specifications			
Thermal conductivity			0.2 W/mK
Heat capacity			3.90 KJ/K



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 portucit for the emissigned use.

The figures shown are average indicative figures relevant to current production and may be changed or updated NDLDX at any the without previous varming. The advice and technical information nouded, is what results from our best knowledge regarding the properties and the use of the product. Considering

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tecom@indexspa.it

Amministrazione e Segreteria

index@indexspa.it

Index Export Dept.

index.export@indexspa.it

Environmenta Management Systems index

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T. +39 045 8546201 - F. +39 045 518390

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