

INTELLO PLUS

Reinforced hydrosafe high-performance vapour retarder, suitable for all fibrous insulation materials




Technical data

Substance		
Fleece	Polypropylene	
Membrane	Polyethylene copolymer	
Reinforcement	Polypropylene non-woven fabric	
Attribute	Regulation	Value
Colour		white-transparent
Surface weight	BS EN 1849-2	110 g/m ²
Thickness	BS EN 1849-2	0.4 mm
Water vapour resistance factor μ	BS EN 1931	35 000
sd-value	EN 1931	
sd-value humidity variable	BS EN ISO 12572	0.25 - >25 m
g-value		70 MN-s/g
g-value humidity variable		1.25 - >125 MN-s/g
Hydrosafe value	DIN 68800-2	2 m
Fire rating	EN 13501-1	E
Airtightness	BS EN 12114	tested
Tensile strength MD/CD	BS EN 13859-1 (A)	340 N/5 cm / 220 N/5 cm
Elongation MD/CD	BS EN 13859-1 (A)	15 % / 15 %
Nail tear resistance MD/CD	BS EN 13859-1 (B)	200 N / 200 N
Artificial ageing by long term	ETA-18/1146	passed
Temperature resistance		permanent -40 °C to 80 °C ; -40 °F to 176 °F
Thermal conductivity		2.3 W/(m·K)
CE labelling	ETA-18/1146	available








Area of application

For use on roofs, walls, ceilings and floors on structures that are open or closed to diffusion on the exterior, e.g. flat/steep roofs and green roofs, after appropriate design calculations.

Forms of delivery

Art. no.	GTIN	Length	Width	Folded	Contents	Weight	Sales unit	Container
10076	4026639011992	50 m	3 m		150 m ²	18 kg	1	20
10092	4026639011244	50 m	1.5 m		75 m ²	9 kg	1	20
10093	4026639011237	20 m	1.5 m		30 m ²	4 kg	1	42
12222	4026639122223	50 m	3 m		150 m ²	18 kg	1	20

Advantages

-  Best possible protection against damage to structures and mould because this product is humidity-variable with a variation of a factor of over 100
-  Test winner in April 2012 with the German product-testing foundation 'Stiftung Warentest'
-  Permanent protection: officially tested and certified performance (ETA-18/1146)
-  Protected winter building sites thanks to hydrosafe behaviour
-  Can be combined with all fibrous insulation materials (including blown-in insulation)
-  Easy to work with: dimensionally stable, no splitting or tear propagation
-  Excellent values in the hazardous substance test, has been tested according to the ISO 16000 evaluation scheme

The information provided here is based on practical experience and the current state of knowledge. We reserve the right to make changes to the recommended designs and processing or to make alterations due to technical developments and associated improvements in the quality of our products. We would be happy to inform you of the current technical state of the art at the time you use our products.

General conditions

pro clima INTELLO PLUS should be laid with the side with the plastic film (the printed side) facing the installer. They can be laid flat either at right angles to or along the sub-structure (such as the rafters) without sagging. If laid horizontally (at right angles to the sub-structure) then the maximum space permitted between the rafters is 100 cm. After laying, it is necessary to support the weight of the insulation with lathing on the inside. The laths should be no more than 50 cm apart. If, when using insulation mats and boards, for example, you expect systematic tension as a result of the insulation weight on the adhesive tape joints, an additional supporting lath should be placed on the overlap. Alternatively, the adhesive tape can be reinforced along the overlap by sticking strips of adhesive tape at right angles to the overlap every 30 cm.

Airtight seals can only be achieved on vapour control membranes that have been laid without folds or creases. Ventilate regularly to prevent excessive humidity (e.g. during the construction phase). Occasional rush/inrush ventilation is not adequate to quickly evacuate large amounts of construction-related humidity from the building. Use a dryer if necessary.

To prevent condensation, INTELLO PLUS should be stuck down so that it is airtight immediately after installing the thermal insulation mats and boards. This particularly applies when working in winter.

Additional instructions for blown-in insulation materials

INTELLO PLUS can also be used for blown-in insulation materials of all types. Its reinforcement structure ensures that there is little elongation during the blowing-in process.

Installing it parallel with the supporting structure has the advantage that the joint overlap will be over a solid structure and the taped joint will be supported by it. If installed perpendicular to structure, please make sure to support taped overlap with a batten or "stitch" tape this joint with perpendicular reinforcing TESCON strips every 30 cm.

Note: To avoid condensation formation in the structure during installation, the blown-in insulation material should be installed immediately after the completion of the airtightness layer. This applies particularly to work carried out in winter.

