



# TrioTex

## Breathing Membranes as Roof and Facade Underlays

Breathing, water proof underlay is a flexible and breathing membrane that is manufactured by binding a micro porous film layer between two polypropylene nonwoven textile (PP spunbond) layers with thermal process. **TrioTex "Plus"** type products provide easy application and price advantage with self-adhesive overlapping.



# **TrioTex** Breathing Membranes as Roof and Facade Underlays

## Areas of Use and Application

Underlay should be laid by being stretched with at least 10 cm overlapping and overlaps should be sealed with recommended adhesive tape. Overlapping width can vary according to vertical and horizontal applications for roof and facade. The edges of underlay and other surface should be sealed with mastic or butyl tapes. If the product is not PLUS type, TrioTex DS 38 double side acryl tape should be applied to underlay overlaps in between or TrioTex SP UNI one side acryl tape should be applied to the overlaps top. TrioTex SP UNI is also used as repairing tape for small damage or rips and sealing for connection to brackets, ventilation shafts with short term UV resistance.

Rolls have a physical surface of 75 m<sup>2</sup> and area to be covered is 70 m<sup>2</sup> at ideal conditions.

The surface of product should be protected from dust and water once it is unpacked. Application of adhesives such as tapes and mastic requires clean surfaces. Underlay should be covered against sunlight in maximum 4 months.

“TrioTex Roof and Facade Solutions” should be reviewed for details.

- It is an element of system on heat insulated wall applications in mechanical cladding facades.
- It is the modern roof underlay for pitched supported or unsupported roofs with or without ventilation.
- It is used as membrane under shingles.
- It is applied under clamped metal roofs.
- It should be selected according to required technical specifications.

## Advantages

- Effectively transmits the moisture out that is contained in the building by its breathing feature .
- Increases efficiency of the cold and warm air in the building by means of its wind barrier effect. It also protects heat insulation against erosion caused by wind and air ventilation.
- It is completely water proof. It protects the outer surface of heat insulation from external rain and snow.
- Based on the results of aging tests, it is a durable and long-life product against UV and temperature changes which the building is exposed to.
- High strength, possibility to use for a long period of time after a single application and heat loss prevention properties make TrioTex an environment friendly product.
- It is equipped with a coating that prevents disturbing reflections.

## Packaging and Storage

It is delivered in rolls in polyethylene packaging.

Roll dimensions: 1.5 x 50 m

Rolls should be kept on a clean surface in the storage facility either vertically or horizontally protected from sunlight.

## TECHNICAL SPECIFICATIONS

[EN 13859-1;2]			135	155	195 F RTD
Mass per unit area	EN 1849-2	g/m <sup>2</sup>	132	150	200
Roll weight		kg	10.5	12	16
Reaction to fire	EN 13501 EN 11925-2	Class	E	E	E
Resistance to water penetration	EN 1928 EN 13111	Class	W1	W1	W1
Water vapour transmission properties [Sd]	EN 12572 EN 1931	m	0.02	0.02	0.02
Maximum tensile force MD / CMD	EN 12311-1 EN 13859-1,2	N/50mm	285 / 200	310/215	350/270
Elongation at max. tensile force MD / CMD	EN 12311-1 EN 13859-1,2	%	55/80	45/80	70/90
Resistance to tearing MD / CMD	EN 12310-1 EN 13859-1,2	N	145/175	165/190	260/330
Dimensional stability	EN 1107-2	%	< 2	< 2	< 2
Flexibility at low temperature	EN 1109 EN 495-5	°C	-20	-20	-20
Resistance to penetration of air	EN 12114 EN 13859-1,2	m <sup>3</sup> /m <sup>2</sup> .h.50Pa	< 0.02	< 0.01	< 0.01
Working Temperature		C°	-40 /+80	-40 /+80	-40 /+80
Water Column	EN 20811	cm	>280	>280	>400
Change after artificial ageing					
Resistance to water penetration	EN 1297	Class	W1	W1	W1
Max. Tensile Force	EN 13859-1, 2	%	< 20	< 20	< 20
Elongation at max. tensile force	Annex C	%	< 35	< 35	< 35



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Roll Packing

