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# TrioTex

## Breathing Membranes with Increased tensile capacity 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) and bearing mesh layers with thermal process. **TrioTex "Plus"** type products provide easy application and price advantage with self-adhesive overlapping.

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**Application and Areas of Use**

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 $m^2$ and area to be covered is 70 $m^2$ 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.
- Bearing mesh gives high tensile capacity to underlay

**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.

CE
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Roll Packing

## TECHNICAL SPECIFICATIONS

| (EN 13859-1) | | | Armor | 160 RTD |
|---|---|---|---|---|
| Mass per unit area | EN 1849-2 | $g/m^2$ | 150 | 160 |
| Roll weight | | kg | 11.8 | 12.5 |
| Reaction to fire | EN 13501<br>EN 11925-2 | Class | E | E |
| Resistance to water penetration | EN 1928<br>EN 13111 | Class | W1 | W1 |
| Water vapour transmission properties (Sd) | EN 12572<br>EN 1931 | m | 0.02 | 0.02 |
| Maximum tensile force MD / CMD | EN 12311-1<br>EN 13859-1, 2 | N/50mm | 380/380 | 420/420 |
| Elongation at max. tensile force MD / CMD | EN 12311-1<br>EN 13859-1, 2 | % | 30/20 | 40/50 |
| Resistance to tearing MD / CMD | EN 12310-1<br>EN 13859-1, 2 | N | 360/340 | 390/360 |
| Dimensional stability | EN 1107-2 | % | < 2 | < 2 |
| Flexibility at low temperature | EN 1109<br>EN 495-5 | °C | -20 | -20 |
| Resistance to penetration of air | EN 12114<br>EN 13859-1, 2 | $m^3/m^2.h.50Pa$ | <0.02 | <0.02 |
| Working Temperature | | C° | -40 /+80 | -40 /+80 |
| Water Column | EN 20811 | cm | >400 | >500 |
| Change after artificial ageing<br>Resistance to water penetration<br>Max. Tensile Force<br>Elongation at max. tensile force | EN 1297<br>EN 13859-1, 2<br>Annex C | Class<br>%<br>% | W1<br>< 20<br>< 35 | W1<br>< 20<br>< 35 |