istanbulteknik
"Ready to improve your construction"

TrioTex

X Fire
Breathing Membrane
as Fire Resistant Facade Underlay

TrioTex X Fire, is a two layer breathing membrane has improved fire reaction and UV resistance for open jointed facade systems. It consists of a Polyester nonwowen layer coated with a functional breathing water proof polyurethane layer. **TrioTex "Plus"** type products provide easy application and price advantage with self-adhesive overlapping.

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X Fire

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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 SP UNI one side acryl tape or for long term UV resistance TrioTex X Fire 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. TrioTex X Fire can be fixed with staple or flat tip screw to metal profiles on overlaps. There should be an air gap between underlay and cover panels minimum 40mm.
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.

- Wooden cladding applications
- Terra cotta, granite, basalt, ceramic facade applications
- Glass facade applications
- Aluminum composite panel applications
- All facade applications requiring high UV resistance like open joint facade systems

Advantages

- It is a product with premium fire performance. Its fire class is B s1 d0 according to EN 13501-1 & 119252. During a likely fire it burns by turn in to ashes with no dripping possibility and it ceases to burn immediately when the fire is removed.
- It is designed especially for open joint ventilated facade systems which opening area is up to %30 of total surface.
- It has a design with particularly high mechanical properties (tensile and tearing strength)
- 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 prevents erosion of the heat insulation.
- It is completely water proof. It protects the outer surface of heat insulation from external rain and snow.
- Based on results of aging tests, it is a durable and long-life product against UV and heat impacts received from open joints. It is exposed to UV for 5000 hours during artificial aging test.
- 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 as 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.

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TS EN 13859-2
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Roll Packing

Technical Specifications

(EN 13859-2)			X Fire
Mass per unit area	EN 1849-2	g/m²	210
Roll Weight		kg	15.5
Reaction to fire	EN 13501 EN 11925-2	Class	B
Resistance to water penetration	EN 1928 EN 13111	Class	W1
Water vapour transmission properties (Sd)	EN 12572 EN 1931	m	0.04
Maximum tensile force MD / CMD	EN 12311-1 EN 13859-1,2	N / 50 mm	300/200
Elongation at max. tensile force MD / CMD	EN 12311-1 EN 13859-1,2	%	25/25
Resistance to tearing MD / CMD	EN 12310-2 EN 13859-1,2	N	120/120
Dimensional Stability	EN 1107-2	%	< 1
Flexibility at low temperature	EN 1109 EN 495-5	°C	-40
Resistance to penetration of air	EN 12114 EN 13859-1,2	m³/m².h.50Pa	0
Working Temperature		°C	-40 /+100
Water Column	EN 20811	cm	>100
Change after artificial ageing Resistance to water penetration Max. Tensile Force Elongation at max. tensile force	EN 1297 EN 13859-1,2 Annex C	Class % %	W1 < 20 < 35
5000 hours UV and high temperature applied for artificial aging and product passed tests successfully.