

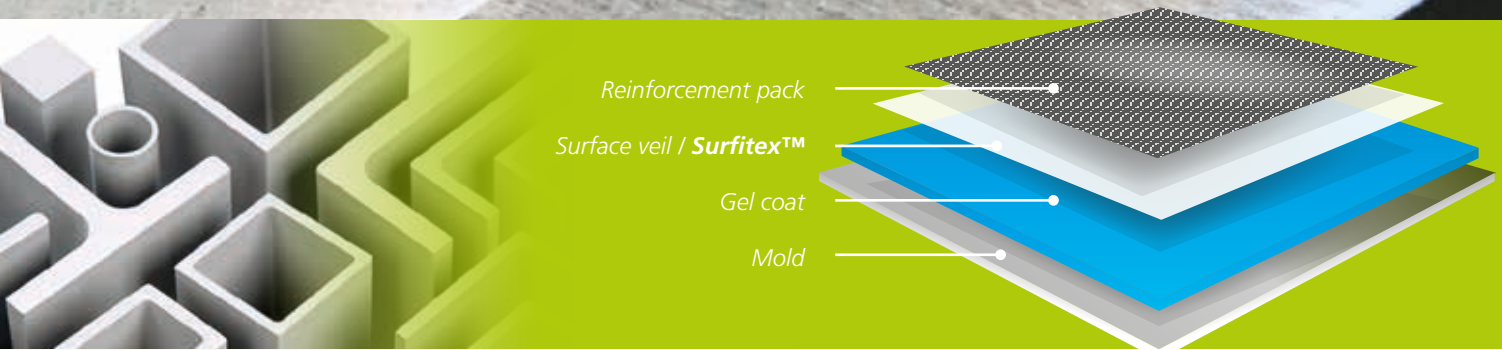
Surfitex™ synthetic surface veils

Extend the life of your products

100% polyester – hydro-entangled – no binders

Surfitex™ is a synthetic veil, based on 100% polyester fibres. The fibres are hydro-entangled (High pressure jets of water – no chemicals added). **Surfitex™** is designed to generate a high-quality surface during production of FRP components. It is highly suitable for pultrusion, filament winding, RTM, vacuum infusion and hand lay-up processes.

A key parameter for the production of FRP components, including pipes, tanks, façade panels and wind blades, is corrosion resistance. Using **Surfitex™** will give FRP components a resin-rich surface that aids to resist corrosion and UV degradation. It furthermore provides a smooth and crack and craze-resistant finish, reducing the reinforcement print-through and increasing the general weathering resistance.



Surfitex™ are hydro-entangled polyester surface veils for FRP which gives it the following main advantages compared to standard C or ECR glass veils/tissues

- Improved corrosion resistance
- Improved UV & weathering resistance
- Binder-free (hydro-entangled – no risk of chemical contamination of the resin)
- Compatible with all resin types
- Easy resin wet-out & infusion
- Retains tensile strength when wet
- Enables better aesthetic and smoother surface for pultrusions
- Cost-effective solution

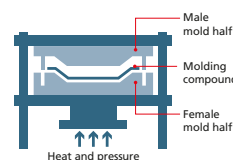
Surface veils - More options

- Extra UV resistance
- Fire retardancy
- Extra stability
- Colour
- Conductivity

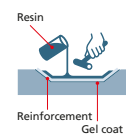


Processes

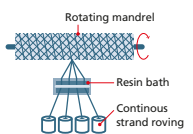
Compression molding



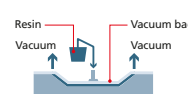
Hand lay-up



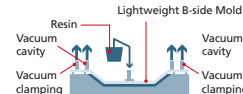
Filament winding



Vacuum infusion processing



Light-RTM



Pultrusion

See overleaf

Surfitex™ synthetic surface veils

Technical data

Products			E 30 L	E 35 L	E 35 NL	EU 45 G NL	E 50 L
Characteristic	Units	Standard	Nominal values	Nominal values	Nominal values	Nominal values	Nominal values
Weight	g/m ²	ISO 9073-1 Samples 500 cm ²	30	35	35	45	50
Thickness	mm	ISO 9073-2 0.5 kPa / 25 cm ²	0.40	0.50	0.40	0.50	0.55
Maximal tensile strenght M.D.	N/5 cm	ISO 9073-3 Dist. 200 mm / Speed 100	70	70	100	135	180
Maximal tensile strenght C.D.	N/5 cm	ISO 9073-3 Dist. 200 mm / Speed 100	10	15	60	50	35
Extension at maximum load M.D.	%	ISO 9073-3 Dist. 200 mm / Speed 100	20	40	35	35	30
Extension at maximum load C.D.	%	ISO 9073-3 Dist. 200 mm / Speed 100	190	150	70	80	140

Packaging: Rolls wrapped in a PE film

Availability of Surfitex™ (synthetic surface veils for FRP)

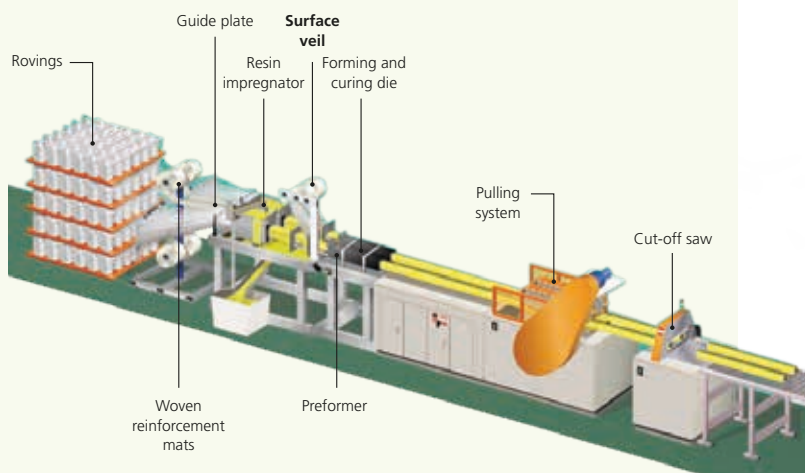
Please contact us at Fibertex Nonwovens A/S for samples and request for quotation.

Surfitex™ is available in a standard roll width of 132 cm or in slit widths for winding processes.

The standard roll length is 500 lin mtr, but roll length up to 2500 lin mtr is available.

Pultrusion

A surface veil is a vital component in a pultruded profile. Pultrusion is a dynamic process whereby the reinforcement, having passed through a resin bath, is pulled through a heated die to produce a composite constant-profile component. As the process is dynamic, the inclusion of a surface veil is the optimum method for imparting a wide range of properties to the surface of the pultruded profile.



Surfitex™ benefits include

- High-quality surface finish
- Improved cosmetics and surface smoothness
- Reduced reinforcement print-through
- Elimination of surface penetration of reinforcing fibres
- Superior corrosion resistance
- Enhanced abrasion resistance
- Improved resistance to UV discolouration and degradation
- Reduced die wear, lowering pulling forces and increasing line speeds
- Good conformability to complex shapes
- Fast wet-out increases processing speed
- Elimination of micro-cracks

We look forward to talking to you about our innovative polyester synthetic surface veils for FRP applications.

Fibertex Nonwovens A/S

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