

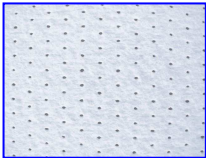
# Lantor Composites® product range

Lantor Composites offers core products for a wide range of composites processes like hand-lay-up, spray processes, vacuum infusion and RTM(L)

## Coremat®

Coremat is polyester nonwoven that contains microspheres. Coremat can be used as a thin core (bulker mat) or as a print blocker (liner) in fibre reinforced laminates, manufactured in hand lay-up or spray processes.

**Coremat Xi** is the world standard for bulker mats. The Coremat resin consumption is about 600 grams per mm thickness. It contains a blue colour change resin indicator.



Coremat Xi is very soft and pliable when impregnated and is therefore very suitable for complex shapes.

*Coremat Xi is available in thicknesses of 1, 2, 3, 4 and 5 mm.*

**Coremat XM** is the premium core product for hand lay-up processes and has a low resin uptake: 500 grams of resin per mm thickness. It is therefore suitable for weight critical applications. The hexagonal cell



pattern results in a very consistent thickness in the product. XM has a high wet tensile strength and is therefore often used in applications where mats are pre-impregnated outside the mould. *Coremat XM is available in thicknesses of 2, 3, 4 and 10 mm.*

## Soric®

Soric is a polyester nonwoven material with a compression resistant cell structure. Soric can be used in closed mould processes like vacuum infusion, RTM light, RTM etc. Because of the unique properties and characteristics, Lantor Soric can be used as a thin core, as an interlaminar flow medium and as print blocker (Soric TF).

**Soric SF** is the general purpose grade, balancing resin flow and surface quality. Soric SF is therefore especially suitable for



thinner laminates.

*Soric SF is available in thicknesses of 2 and 3 mm.*

**Soric XF** maximises weight reduction in structural core applications. Soric XF offers the fastest resin flow for the lowest resin



consumption and is therefore ideal for thicker laminates.

*Soric XF is available in thicknesses of 2, 3, 4, 5 and 6 mm.*

**Soric TF** is the ideal product for the most demanding cosmetic and surface finish requirements.

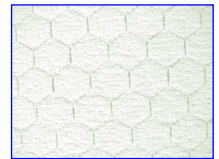


laminates.

*Soric TF is available in thicknesses of 1.5, 2 and 3 mm.*

Development product:

**Soric LRC** is the latest development in the Soric grades and is a special grade for Low Resin



Consumption and is therefore suitable in weight critical laminates.

*Soric LRC (development grade) is available in thicknesses of 1.5, 2 and 3 mm.*

## Finishmat

Finishmat is the Lantor range of surfacing veils for the composite industry. Finishmat products are used to improve cosmetics, to reduce the abrasion of moulds of to enhance the chemical resistant.

**Finishmat D7760** is a needled felt made of polyacrylonitrile fibres. It prevents fibre print through from glass fibres and by creating a resin rich layer it can also help prevent water osmosis.



**Finishmat 6691 SL / LL** is a chemical bond, polyester tissue. 6691 veils are used in filament winding and pultrusion processes. They create a smooth, resin rich layer, which serves as a chemical barrier and creates a smooth surface finish.



*6691 SL weighs 20 g/m<sup>2</sup> and 6691 LL weighs 40 g/m<sup>2</sup>.*

## Lantor Coremat and Soric in PAC – 750 XL aircraft

Fibre Glass International produces parts for the PAC 750 XL aircraft (Pacific Aerospace Company)

The design made its maiden flight in 2001. The PAC 750 received full US FAA certification in 2004.



The type was targeted initially to the narrow market of skydiving. In the parachuting role, the high-lift wings and relatively high power to weight ratio enable the PAC 750 to take a load of parachutists to 12,000 feet (3,700 m) and return to land within 15 minutes.

A wider market was subsequently sought, and examples have been sold for use in utility roles, including freight, agricultural applications, passenger operations, aerial photography and surveying. One aircraft has been extensively modified for geo-survey work, being fitted with a Magnetic anomaly detector sting tail. Proposed ski and float conversions have yet to fly. The PAC 750XL is used in South Africa by NatureLink on United Nations Humanitarian Air Services / World Food Programme contracts. While the manufacturer claims single-engine lower running

costs than many other utility types, for example, the twin-engined DHC-6 Twin Otter though the type has less useable volume (large cargo panniers providing a partial solution).

Over 50 aircraft have been ordered in New Zealand by 2008, when the manufacturer stated production was increasing from 12 to 24 per year.

**Customer:**  
Fibre Glass International  
New Zealand

**Lantor Coremat is used:**  
- to create extra stiffness  
without adding extra glass  
and weight

**Lantor Soric is used:**  
- to create extra stiffness  
- as resin flow medium

**Production technology:**  
Hand Lay Up &  
Vacuum Infusion

**Resin used:**  
Epoxy resin



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