

COMPOSITES





Enabling Performance

When searching for high quality product solutions based on functional non-woven technology, Lantor is your perfect partner. With more than 55 years of experience and expertise across a wide range of applications, industries and markets, we can offer the very best solutions for your needs. Our products deliver the superior functionality which enables our customers to offer superior products, processes and applications. We aim to provide maximum value in use at the lowest integral costs, combined with maximum customer satisfaction. For Lantor, a real partnership includes excellent delivery reliability, along with full service and support.

Lantor Composites

The Lantor Composites division offers a comprehensive range of innovative nonwovens solutions for the composites (fibre reinforced plastics) industry. Since our introduction of nonwoven core materials as a time and cost saving solution for the composites industry we have built a solid reputation. In close cooperation with the world's leading end-users and institutes, we have developed successive generations of Lantor mat products for specific applications in the marine, transportation, construction, leisure and wind industry. With dedicated, solution-driven support and calculation services we will find the optimal solution for you.

Fields of application

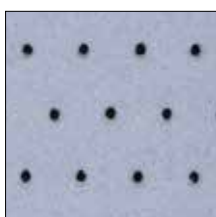
- Marine: hull, decks, and structures of boats and yachts
- Transportation: parts and panels of cars, trailers, trucks and RV's
- Mass transit: interior and exterior of trains, light rail and buses
- Leisure: kayaks, surfboards, pools and tubs
- Industrial: cladding panels, fans, containers and tanks
- Wind Energy: nacelle covers, spinners and blades

Coremat® **Xi**
Coremat® **XM**
Soric® **SF**
Soric® **XF**
Soric® **XXF**
Soric® **LRC**
Soric® **TF**
Finishmat® **D77**
Finishmat® **6691**

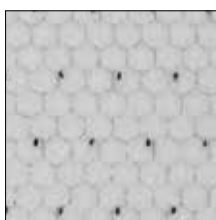


Lantor Coremat®

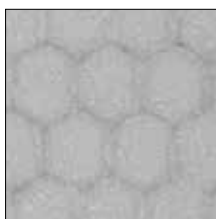
For decades, Lantor Coremat® has been considered the world standard for flexible bulkier mats and print blockers used in hand lay-up and spray-up processes. All Coremat® grades consist of a polyester nonwoven containing microspheres and offer a cost effective increase in stiffness and weight, savings in materials and an excellent surface finish.



Coremat® Xi



Coremat® XM



Coremat® XM 10

Coremat® Xi

The original Coremat® Xi grade is distinctively recognizable by its blue resin indicator. It is known for its excellent impregnation and drapeability properties during processing. This makes the Coremat® Xi an excellent choice for complex geometries.

- Original Lantor Coremat® quality
- Easy impregnation with a resin uptake of only 600 g/m² per mm thickness
- Excellent flexibility and softness during processing for complex geometries

Coremat® XM

The Coremat® XM is engineered to combine optimized resin uptake with good tensile strength of the material when wet. The XM grade has been given a hexagonal cell structure to maintain the Coremat® quality for consistency of thickness and flexibility.

- Suitable for pre-wetting outside the mould due to its wet tensile strength
- Reduced resin uptake of 500 g/m² per mm thickness
- Honeycomb appearance for consistent thickness and flexibility

Coremat® XM 10

The Coremat® XM 10 grade is designed to replace rigid materials such as foam, plywood or plastic cores. The XM 10 has a good screw retention, without rot issues and combines this with the Coremat® qualities of flexibility and easy processing.

- Good plywood replacement
- Good screw retention, without rot issues
- Flexible and easy processing

Properties		Coremat® Xi					Coremat® XM			
		Xi 1	Xi 2	Xi 3	Xi 4	Xi 5	XM 2	XM 3	XM 4	XM 10
Thickness	mm	1,4	2,0	3,0	4,0	5,0	2,0	3,0	4,0	10,0
Roll length	m	130	80	50	40	30	80	50	40	15
Roll width	m	1	1	1	1	1	1	1	1	1
Resin uptake	kg/m ²	0,8	1,2	1,8	2,4	3,0	1,0	1,5	2,0	6,5
Dry weight	g/m ²	45	55	80	105	125	80	110	140	250
Density impregnated	kg/m ³	630	630	630	630	630	540	540	540	680



Lantor Finishmat®

Finishmat® is the Lantor range of surfacing veils for the composites industry.

Finishmat® veils are used to improve surface cosmetics, create better chemical resistance or reduce the abrasion of composite structures.

Each Lantor Finishmat® offers good and even impregnation and is suitable for several production processes and applications.



Finishmat® D77

Finishmat® D77

The Finishmat® D77 is a needle punched PAN fibre veil that is very drapeable. It is often used in closed mould processes where the soft Finishmat® is applied directly against the mould or gelcoat to prevent osmosis and fibre print-through from glass fibres.

- Suitable for closed mould processes
- Excellent surface finish
- Effective protection from osmosis



Finishmat® 6691

Finishmat® 6691

The Finishmat® 6691 range is a chemical bond polyester veil with tensile properties that make it suitable for filament winding and pultrusion processes. The consistent resin uptake creates a smooth, resin-rich layer that serves as chemical barrier and surface finish.

- Suitable for continuous processes such as filament winding and pultrusion
- Good tensile properties for controlled processing
- Creates a chemical barrier and surface finish

Properties	Finishmat® D77		Finishmat® 6691		
	D77 60	D77 80	6691 SL	6691 LL	
Thickness	mm	0,30*	0,40*	0,30	0,45
Roll length	m	100	100	1000	1000
Roll width	m	Several widths	Several widths	1,0	1,0
Resin uptake	kg/m ²	0,40*	0,55*	0,35	0,50
Dry weight	g/m ²	60	80	20	40
Binder type		Needle punched	Needle punched	Acrylate	Acrylate
Elongation	%	100	100	>10	>10
Fibre type		PAN	PAN	Polyester	Polyester
* depending on process pressure					

CABLE

COMPOSITES

CONSTRUCTION

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