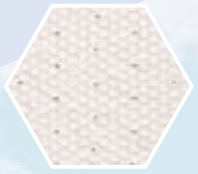
Lantor Coremat®

The nonwoven core and liner for hand lay-up and spray-up processes

Coremat is a polyester nonwoven that contains microspheres and is used as a thin core (bulker mat) or print blocker (liner) in fibre reinforced laminates, manufactured in Hand Lay-Up or Spray-Up processes. Coremat should always be fully impregnated with resin. The microspheres in Coremat prevent excessive resin up-take. The most important reasons to use Coremat are:

- **Weight saving**
- **Resin and glass saving**
- **Increase stiffness**
- **Fast thickness build-up**
- **Excellent surface finish**

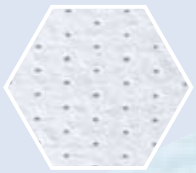
Coremat XM



Coremat XM has a low resin take up: 500 gram 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. Coremat XM has very good wet tensile strength properties; it is therefore often used in applications where mats are pre-wetted outside the mould.
Generally customers choose Coremat XM, because of its smoothness, ease of working, and resin savings.
Key properties XM:

- Honeycomb structure for excellent drapeablity
- Extra resin saving
- High wet strength

Coremat Xi



Coremat Xi is the world standard for bulker mats. The Coremat resin consumption is about 600 grams per mm thickness. It contains a resin indicator which changes colour to show that resin has been applied to the Coremat.
Coremat Xi is very soft and pliable when it is wet and therefore very suitable for complex shapes.

Key properties Xi:

- Resin indicator
- Excellent impregnation
- High drapeability in resin

Coremat XM 10

Use Coremat XM 10 to replace plywood of rigid materials like foam or plastic cores. Coremat has good screw retention and does not have rot issues, unlike wood.

Technical data

	Coremat Xi					Coremat XM			
	Xi 1 mm	Xi 2 mm	Xi 3 mm	Xi 4 mm	Xi 5 mm	XM2	XM3	XM4	XM10
Thickness mm	1.4	2	3	4	5	2	3	4	10
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	1,5	2	6,5
Dry weight g/m^2	35	62	88	114	125	96	128	163	335
Densinty impregnated kg/m^3	630	630	630	630	630	540	540	540	680

* Special widths on request

LANTOR nl Composites