

COMPOSITES

Datasheet Coremat® Xi

Lantor Coremat® Xi

- The cost effective solution for open mould processes
- Is used as core material and/or print blocker
- Is a polyester nonwoven and compatible with all regular types of resins, including Polyester, Vinylester, Phenolic and Epoxy
- Is suitable for hand lay-up and spray-up processes

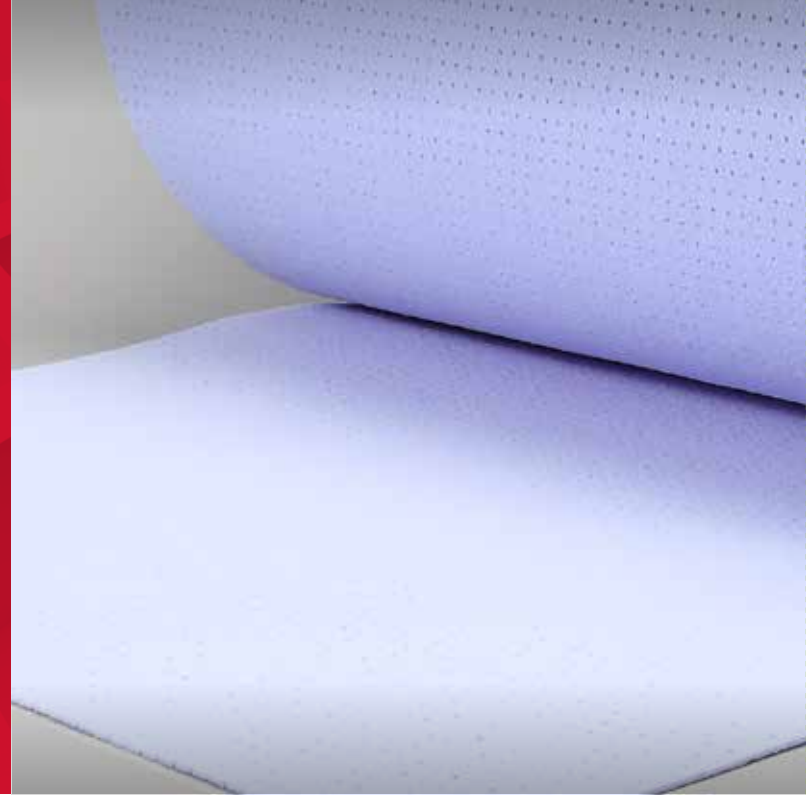
Applications Lantor Coremat® Xi

- Marine: hulls, decks and structures of boats and yachts
- Transportation: parts and panels of cars, trailers and trucks
- Mass transit: interior and exterior of trains, light rail and buses
- Leisure: kayaks, surfboards, pools and tubs
- Industrial: cladding panels, containers and tanks

Notification

Keep Coremat® Xi away from direct sunlight, therefore store Coremat® Xi in the original bag. This will ensure proper functioning of the resin indicator. Please note that the resin indicator is not a guarantee that sufficient resin has been applied, but strictly a control mechanism to identify dry spots. Always check resin content.

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Dimensional data

| Properties | | Xi 1 | Xi 2 | Xi 3 | Xi 4 | Xi 5 |
|---------------------|-------------------|------|------|------|------|------|
| Thickness | mm | 1,4 | 2,0 | 3,0 | 4,0 | 5,0 |
| Roll length | m | 130 | 80 | 50 | 40 | 30 |
| Roll width | m | 1 | 1 | 1 | 1 | 1 |
| Resin uptake | kg/m ² | 0,8 | 1,2 | 1,8 | 2,4 | 3,0 |
| Dry weight | g/m ² | 45 | 55 | 80 | 105 | 125 |
| Density impregnated | kg/m ³ | 630 | 630 | 630 | 630 | 630 |

Typical mechanical properties of Lantor Coremat® Xi* impregnated with unsaturated polyester resin

| Mechanical properties | unit | value | test method |
|----------------------------------|------|-------|--------------|
| Flexural strength | MPa | 11 | ASTM D790 |
| Flexural modules | MPa | 1100 | ASTM D790 |
| Tensile strength across layers | MPa | 4 | ASTM C297 |
| Compression strength: 10% strain | MPa | 10 | ISO 844 |
| Shear strength | MPa | 5 | ASTM C273-61 |
| Shear modules | MPa | 35 | ASTM C273-61 |
| *Lantor Coremat® Xi 3 | | | |

Information

PO box 45 - 3900 AA
Verlaat 22 - 3901 RG
Veenendaal
The Netherlands
T +31(0) 318 537 111
composites@lantor.com

enabling performance
www.lantor.com