



Prime® Umidax®



## Product class

Type MDF.HLS according to EN 622-5

## Scope

High quality moisture-repellent MDF for use in humid environments, particularly for interior decoration and furniture production, . Industrially coated on both sides with a white and even primer.

On request, this MDF board can be supplied with a PEFC, FSC or FSC Controlled Wood certificate.

## Application

MDF Prime® Umidax® allows for an excellent paint finish while saving cost and time. After degreasing and (light) sanding the panel surface may be finished immediately in the desired colour – matt, silk or high gloss – using a solvent-based or water-based coating.

MDF Prime® Umidax® has low level of formaldehyde emissions(Class E1). It is suitable for interior decoration and furniture applications and highly popular among IDY enthusiasts.

The two-sided, industrially applied white UV primer offers the following benefits:

- A smoother end result than with a manually applied primer, partly thanks to correct and controlled paint distribution
- The UV primer coating is cured using ultra-violet light, resulting in a more impact- and wear-resistant surface
- Excellent adhesion, even with water-based coatings
- Correct colour rendering of the paint, therefore a perfectly coloured end result
- Cost and time savings: less paint consumption due to lower absorption, and less paint work required
- Easy finishing of joints and screws with fine fillers and intermediate sanding

## Processing guidelines

### General preparation of paintworks

Acclimatize the MDF boards prior to applying the finishing coating: place the panels in the area where they will be used and ensure that the level of humidity and the temperature match the circumstances of final use. This will help to prevent cracks and tension on the coated surface that may occur under highly fluctuating temperature or humidity. Repair any damage (e.g. around visible screws in the surface) using materials that are compatible with the subsequent paint system, for instance polyester fillers.



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### Finishing the panels

Finish MDF Prime® Umidax® as needed with a brush, roller or spray gun depending on the chosen paint. Make sure to respect the basic rules of paint finishing to avoid overlapping paint marks, droplets, etc. Also make sure to follow the processing instructions provided with the chosen coating system.

Apply at least two final coatings for the best finishing result. Lightly sand in between coatings preferably using sandpaper > P200.

Note: finishing with latex paint  
The material allows for finishing with latex paint. Because latex paint is more demanding in terms of adhesion, we recommend that you use a highly moisture-resistant and suitable primer.

### Finishing the edges

The edges of MDF Prime® Umidax® have a lower density than the surface and therefore will absorb paint more easily. The edges must be sanded thoroughly and filled – several times, if needed – with a suitable filling primer. After applying filling coatings to the edges the fibres may swell under humid conditions. Intermediate sanding is therefore necessary. There is a wide choice of filling primers and polyester fillings for the end grain of wooden sheet material available on the market.

### General instructions

The MDF board must be applied in service class 2 (restrictions as regards temperature and ambient humidity) and may only be used in biological hazard class 1 and 2 of EN 335-3. During and especially after installation the boards must, wherever possible, be optimally protected from any direct contact with water. They must be stacked flat, on a pallet or using a sufficient number of cross members. Boards should not be stored vertically, unless ground contact can be avoided. The board will expand/shrink under variable humidity conditions.

Use suitable sawing, milling and drilling tools. MDF Umidax® can be used for structural walls, with a restriction in the load duration class. In service class 2, corrosion resistant fittings must be used, e.g., galvanised steel. Nails or screws should be kept at least 8 mm away from the edge of the board.





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## Dimensions and types

Standard thickness: 12 and 18 mm. Standard width: 1220 mm. Standard length: 2440 mm or 3050 mm. Other dimensions or thicknesses (6 to 30 mm) are available upon request. MDF Prime® Umidax® is also available in a version for application in dry conditions.

For more information please contact our sales team or send an email to [sales.spanolux@unilin.com](mailto:sales.spanolux@unilin.com).

## Technical specifications

Property	Test method	Unit	Ranges of nominal thickness (mm)				
			> 4 to 6	> 6 to 9	> 9 to 12	> 12 to 19	> 19 to 30
Swelling in thickness 24 h	EN 317	%	18	12	10	8	7
Internal bond	EN 319	N/mm <sup>2</sup>	0,70	0,80	0,80	0,75	0,75
Bending strength	EN 310	N/mm <sup>2</sup>	34	34	32	30	28
Modulus of elasticity in bending	EN 310	N/mm <sup>2</sup>	3000	3000	2800	2700	2600
<b>Option 1</b>							
Swelling in thickness after cyclic testing	EN 317 EN 321	%	25	19	16	15	15
Internal bond after cyclic testing	EN 319 EN 321	N/mm <sup>2</sup>	0,35	0,30	0,25	0,20	0,15
<b>Option 2</b>							
Internal bond after boil test	EN 319 EN 1087-1	N/mm <sup>2</sup>	0,20	0,15	0,15	0,12	0,12

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