

PRODUCT DATA SHEET

EGGER LAMINATE MICRO



EGGER Laminate Micro is a decorative laminate based on curable resins. The laminate is constructed by fusing multiple layers and consists of melamine resin impregnated decor paper and a bondable reverse. Depending on application and requirements, the decorative side can be enhanced with a special overlay to increase surface abrasion resistance.

Uses/Areas of application

The laminate is used for the lamination and / or wrapping of door panels, kitchen and bathroom furniture fronts, window sills, jointing strips (or profiles) as well as cornices and lighting pelmets.

Availability

Decors from the ZOOM and INDUSTRY collections are produced to order, subject to a minimum order quantity of 260 m² per decor.

Storage/Fabrication

STORAGE

Micro laminates should be stored in enclosed, dry areas under normal climatic conditions in the original packaging, lying flat on a pallet and protected from moisture. Direct floor contact and/or exposure to sun light must be avoided.

FABRICATION

Suitable for bonding onto classic wood-based materials such as: Chipboard/MDF/HDF boards as well as PVC substrates. Wood-based materials such as blockboard and veneer plywood require special attention and in-house press tests should be carried out prior to going into full scale production. Solid wood is not suitable as a core board; dimensional changes caused by fluctuations in the ambient conditions can lead to cracks or waves in the laminate surface.

EGGER Laminate Micro can be processed off the roll only on roll-fed lamination lines using conventional urea resin glues and dispersion adhesives as well as on wrapping machines using polyolefin or polyurethane hot-melt adhesives. To ensure a successful fabrication and bonding process, we recommend to condition the EGGER Micro laminate as well as the substrate in normal, temperate environments.

Please follow the instructions provided by the machinery manufacturer and adhesive supplier.

It should be noted that blockboard and veneer plywood do not reach the same homogeneity as chipboard as they consist of veneers and/or solid wood. In fluctuating climatic conditions, the dimensional changes of constituents such as veneer and/or solid wood do not reach the same uniformity as can be guaranteed with wood chips. However, a flat and tension-free substrate is a prerequisite for an even surface, necessitating therefore that a substrate calibration as well as a wood moisture content test (internal application $\leq 8\%$) be carried out. Materials that are processed when they are too moist tend to shrink over time, which may lead to cracks and warpage. When using Multiplex boards, preference should be given to veneer plywood made of softwoods (e.g. poplar, birch, okoume, abachi). Similarly, blockboards should consist of narrow strips with a softwood surface layer to prevent surface irregularities.

Quality characteristics/Technical data

RESISTANCE TO SURFACE WEAR

Quality properties abrasion	Result		Index	Standard
	Initial point IP [Revolutions]	Wear resistance [IP+FP]/2 [Revolutions]		
No overlay (Fantasy and Wood grains)	< 50	≥ 50	-	EN 438-2:2005
No overlay (Solid and white)	≥ 150	≥ 350	3	EN 438-2:2005
O-Overlay	≥ 150	≥ 350	3	EN 438-2:2005
X-Overlay	$\geq 1,800$	-	AC2	EN 438-5:2005
V-Overlay	$\geq 4,000$	-	AC4	EN 438-5:2005

COLOUR AND DECOR MATCH

The colour appearance of the decor is influenced to a large degree by the core colour. However, Laminate Micro only has a thin balancer paper on the reverse, which means there may be colour differences compared to other EGGER products depending on the colour of the chosen core board.

"100 percent matching colours with EURODEKOR and other laminate qualities cannot be guaranteed."

RESISTANCE TO SCRATCHING

Essentially, scratch resistance is determined by the surface texture, as generally speaking wear and scratch marks are not as visible on textured surfaces as they are on smooth surfaces. The choice of decor is also important, as light colours are less susceptible than dark ones and printed decors are usually better than plain colours. In conclusion, the selection of certain structure, surface colour and décor combinations can influence the scratch resistance. Bearing in mind the choice of EGGER decors and structures available, the scratch resistance fluctuates between the ratings of 3 and 4.

EN 438:2005 measures scratch resistance in degrees. The degree at which the laminate displays evidence of wear and scratch marks is influenced by its surface properties and colour. For a better understanding, please refer to the EN 438:2005 rating scale below.

Scratch resistance rating scale	Discontinuous scratches, or faint superficial marks, or no visible marks	$\geq 90\%$ continuous double circle of scratch marks clearly visible.
Rating 5	6 Newton	> 6 Newton
Rating 4	4 Newton	6 Newton
Rating 3	2 Newton	4 Newton
Rating 2	1 Newton	2 Newton
Rating 1	-	1 Newton

Additional quality features

Quality feature	Unit	Result	Standard
Resistance to dry heat *1	Rating	4	EN 438-2:2005
Resistance to water vapour *1	Rating	4	EN 438-2:2005
Resistance to staining group 1 and 2	Rating	5	EN 438-2:2005
Resistance to staining group 3	Rating	4	EN 438-2:2005
Lightfastness (Xenon arc lamp) *2	Grey scale	4 - 5	EN 438-2:2005
Resistance to cigarette burns	Rating	3	EN 438-2:2005

*1 Values may be lower for full pearlescent print decors. These are therefore unsuitable for horizontal applications.

*2 Extraneous darkening and/or photochromism are due to the shock effect of accelerated exposure, and are not characteristics of natural exposure.

Please refer to the leaflet "EGGER Pearlescent Laminate" for further detailed information.

Postforming properties

EGGER Laminate Micro can be postformed in the longitudinal direction. Depending on the nominal laminate thickness, the following minimum radii can be achieved with printed decors, enhanced with standard overlays (O Overlay)

- Nominal thickness 0.15 and 0.20 mm smallest radius ≥ 3 mm.

These radii indications do not apply for high resistance laminates, enhanced with X or V Overlays.

Fire behaviour

In the event of fire, EGGER Laminate Micro meets the requirements for interior fittings. There is little formation of smoke, the laminate does not soften and is non drip-forming. EGGER Laminate Micro does not contain chlorine or other halogens, and therefore does not cause any consequential fire damage due to the corrosion of machinery and buildings.

Dimensions/Tolerances/Available Formats

Nominal laminate thickness [mm]	Available Formats		Thickness tolerance [mm]	Width tolerance [mm]
	Rolle	Format		
0.15 und 0.20	▪	-	+0.10/-0.05	+10/-0

ROLL FORMAT

EGGER Laminate Micro is manufactured exclusively on a roll.

Roll lengths: 200, 400, 600 and 800 m

Maximum width: 1,300 mm

Width cross cuts: max. 3 cross cuts; minimum laminate width 250 mm; Please note: 7 mm waste per cross cut.

Core diameter: 150 mm

Care and cleaning recommendation

Due to the resistant and hygienic, dense surface, EGGER Laminate Micro does not require any special form of care. The surfaces are generally easy to clean. This also applies to textured surfaces.

More detailed information can be found in our leaflet "EGGER laminate cleaning and maintenance instructions".

This Product Data Sheet has been carefully drawn up to the best of our knowledge. The information provided is based on practical experience as well as in-house tests and reflects our current state of knowledge. It is intended for information only and does not constitute a guarantee in terms of product properties or suitability for specific applications. We accept no liability for any mistakes, errors in standards or printing errors. In addition, technical modifications can result from the continuous further development, as well as from changes in standards and documents originating from statutory bodies. The contents of this Technical Data Sheet should therefore not be considered as instructions for use or as legally binding. Unless otherwise stated, our General Terms and Conditions apply.