

Technical data sheet

Bluefin Ecolux MT

3734

Water-based, UV-curing **multi-layer coating** for furniture and interior finishing for industrial use

PRODUCT DESCRIPTION

General

Water-based, UV-curing clear coating for wood with pronounced physical drying. Very good mechanical and good chemical resistance, very good transparency, good sag resistance on vertical surfaces and excellent filling power.

Special properties and standards



- **ÖNORM A 1605-12 (furniture surfaces)**
 Resistance to chemical reactions: 1-B
 Response to abrasion: 2-D (≥ 50 U)
 Response to scratches: 4-D ($\geq 1,0$ N)
 Flame treatment: 5-B (highly non-flammable furniture surfaces)
- **DIN 68861 (furniture surfaces)**
Confirmed by an external test certificate.
 Part 1: Response to chemical stress: 1 B
 Part 2: Response to Abrasion: 2 D (> 50 to ≤ 150 U)
 Part 4: Response to scratches: 4 D ($> 1,0$ to $\leq 1,5$ N)
- **EN 13501-1 (fire behaviour)**
Confirmed by an external test certificate.
 In combination with a hardly inflammable surface, e.g. materials of fire class A1 or A2: classification as B-s2,d0. The complete coating system (carrier board / glue / veneer or foil) is always used to classify the reaction to fire.
- **French ordinance DEVL1104875A**
 Marking of construction coating products for their emission of volatile pollutants: A+



Application area



For the coating of furniture and interior finishing exposed to normal levels of stress, bedroom suite and living room furniture: application areas III to IV according to ÖNORM A 1610-12.

For hardly inflammable or flame-retardant coating systems.

PROCESSING

Processing instructions

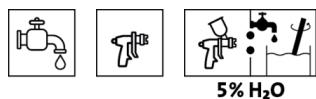


- Please stir the product before use.
- The temperature of the product and object, and the room temperature must be at least + 15 °C.
- Bluefin Ecolux MT (3734) is designed above all for the "varnish-on-varnish" working method. Applying two spraying coats with the

appropriate intermediate sanding results in visually attractive and high-quality furniture surfaces.

- Various types of wood (e.g. Larch, various exotic types of wood) contain water-soluble substances, which become active when overcoating with water-based furniture coatings. To prevent discolouration or marking (which may vary in intensity depending on the wood's origin), we therefore recommend pre-priming **extractive-rich woods** with **Bluefin Baselux (3810)** before coating. For the wood type **larch** we recommend **Aduro Primer (2523)** as a base-coat.
- If an even more pronounced grain accentuation is wanted on dark timbers, the wood should be stained before coating.
- Regarding wood stains that can be used under water-based UV paints, please contact your technical adviser.
- We do not recommend using Bluefin Ecolux MT (3734) as a topcoat on white pigmented surfaces.
- Any change in the processing sequence, environmental conditions, non-observance of instructions or the use of products not listed may have an unfavourable effect on the result.
- Please follow our **ARL 150 - Working guidelines for water-based furniture coatings**.

Application technique



	Airless	Airless air-supported (Airmix®, Aircoat, etc.)	Cup gun
Spraying nozzle Ø (mm)		0,23 - 0,33	2,0
Spraying pressure (bar)		100 - 120	3 - 4
Vaporizer Air (bar)	-	1 - 2	-
Diluent		Water	
Applied quantity per application (g/m²)		100 - 120	
Total quantity applied (g/m²)		max. 450*	

*(Primer and topcoat)

The shape and surface condition of the workpiece as well as the type of application influence the actual consumption. Accurate values for consumption must be obtained by applying trial coats in advance.

Drying conditions

Flashing off the water:

35 - 45 minutes	belt-type pallet drier (Rising temperature up to max. + 50 °C, air speed approx. 2 m/s)
or	
15 - 20 minutes	Flat channel dryer (Rising temperature up to max. + 50 °C, air speed approx. 2 m/s)

The mentioned system parameters are reference values, which must be coordinated with the respective plant. Drying depends, for example, on the type of wood, workpiece shape, layer thickness, temperature, air exchange, relative humidity, stacking pressure and stacking conditions.

UV curing



Feed 2 - 3 m/min (with one radiator)

UV high-performance radiator 80 - 120 W/cm

The feed can be increased in direct proportion to the number of radiators.

Cleaning the working equipment



8029

With water immediately after use.

To remove dried paint residues we recommend using Aqua-Cleaner (8029) (diluted 1:1 with water).

SUBSTRATE

Type of substrate

Hardwoods and softwoods

Substrate property

The substrate must be dry, clean, capable of holding the paint, free from separating substances such as grease, wax, silicone, resin etc. and free from wood dust, as well as tested for suitability for coating.

Substrate preparation

Wood sanding

Hardwoods: Grit size 150 - 180

Softwoods: Grit size 100 - 150

COATING SYSTEM

Primer coat

1 x Bluefin Ecolux MT (3734)

Intermediate sanding



Grit size 240 – 320

Avoid sanding straight through!

Remove sanding dust.

Topcoat

1 x Bluefin Ecolux MT (3734)

CLEANING AND MAINTENANCE

Cleaning and Maintenance

Cleaning with Clean-Möbelreiniger (7202) an care with Clean-Möbelpflege Plus (7222).

ORDERING INFORMATION

Size of trading unit

25 kg

More sizes on request.

Colour shades / Glosslevels

Bluefin Ecolux MT G10 (3734000110)
Bluefin Ecolux MT G30 (3734000130)

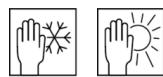
Supplementary products

Aduro Primer (2523)
Aqua-Cleaner 8029 (8029)
Bluefin Baselux (3810)
Clean-Möbelpflege Plus (7222)
Clean-Möbelreiniger (7202)

Please refer to the corresponding technical data sheets of the products.

FURTHER DETAILS

Durability / storage



Min. 9 month(s) in the original sealed containers.

Make sure the product is protected against moisture, direct sunlight, frost and high temperatures (above 30 °C).

Close opened containers well and use up the content as soon as possible.

Technical specifications

Delivery viscosity: 55 – 60 seconds according to DIN 53211
(6 mm measuring cup, 20 °C)

Safety information



The product is only suitable for industrial use.

The inhalation of paint aerosols during spray application must generally be avoided. This is ensured by the proper use of a respirator (combination filter A2/P2).

Further information on the subject of safety during transport, storage and handling as well as disposal can be found in the relevant safety data sheet. The current version can be accessed on the Internet at www.adler-lacke.com.