

Bluefin Multilux U

3851

Water-based, UV-curing furniture varnish for industry
U – universal quality

PRODUCT DESCRIPTION

General

Water-based, UV-curing clear varnish for wood with a rapid initial physical drying phase. Stand-out features of this product include very good mechanical and chemical resistance, good transparency, outstanding resistance to yellowing, good stability on vertical surfaces and good filling performance.

Special properties and standards



- **ÖNORM A 1605-12 (furniture surfaces)**
Resistance to chemical reactions: 1-B1
Response to abrasion: 2-D (≥ 50 U)
Response to scratches: 4-D (≥ 1.0 N)
Flame treatment: 5-B (hardly inflammable furniture surface)
- **DIN 68861 (furniture surfaces)**
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)
- **ÖNORM A 3800-1 (fire behaviour)**
In conjunction with a flame-retardant substrate:
flame-retardant, Q1, Tr 1
- **DIN 4102-B1 (fire-retardant)**
Confirmed by an external test certificate.
In conjunction with flame-retardant laminated plywood – even veneered.
- **DIN 53160-1 and DIN 53160-2**
Perspiration and saliva-proof properties
- **ÖNORM EN 71-3**
Safety of toys; migration of certain elements (free of heavy metals)
- **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 high levels of stress, such as tabletops and shelves in the kitchen and living area, bathrooms, offices and in the contract sector, fronts and permanently visible areas, surfaces used on seating furniture and not permanently visible areas. Application areas II to IV in accordance with ÖNORM A 1610-12.

1-1 IMC 3851 | 07/25 | replaces 1-0

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Our instructions are based on the current state of knowledge and are intended to advise the buyer/user to the best of our knowledge, but must be individually adapted to the areas of application and processing conditions. The buyer/user is responsible for deciding on the suitability and use of the supplied product, which is why we recommend that a sample be produced to check the suitability of the product. In all other respects, our General Terms and Conditions of Sale apply. All previous data sheets lose their validity with this edition. We reserve the right to make changes to container sizes, color shades and available gloss levels.

For hardly inflammable or flame-retardant coating systems.

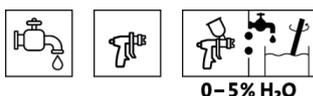
PROCESSING

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 Multilux U (3851) 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 such as Oak, various exotic woods, etc. contain water-soluble substances, which become active when overcoating with water-based furniture coatings.
- Depending on the origin of the timber different levels of discolouration (greenish cast) can occur when the painted areas are exposed to daylight.
- When painting **oak and other types of woods rich in extractives** we recommend priming them first with **Bluefin Baselux (3810)**.
- For the wood type **larch** we recommend **Aduro Primer (2523)** as a base-coat.
- Bluefin Multilux U (3851) is characterised by good transparency and grain accentuation of the wood substrate.
- 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.
- Please refer to the corresponding technical data sheets of the products.
- 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
Diluent amount added (%)	-		0 - 5
Applied quantity per application (g/m ²)	100 - 120		

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

35 - 45 Minuten	belt-type pallet drier (Rising temperature up to max. + 50 °C, air speed approx. 2 m/s)
or	
15 - 20 Minuten	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 on the substrate, layer thickness, temperature, air exchange, relative humidity, stacking pressure and stacking conditions.

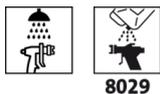
Lower temperatures and/or high level of atmospheric humidity can increase the drying time.

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

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 Multilux U (3851)

Intermediate sanding

Manual sanding:

Grit size 280 – 360

Machine sanding: Grit size 400 – 600

Avoid sanding straight through!

Remove sanding dust.

Topcoat

1 x Bluefin Multilux U (3851)

CLEANING AND MAINTENANCE**Cleaning and Maintenance**

Cleaning with Clean-Möbelreiniger (7202).

Maintenance of surfaces with gloss level G30 and higher with Clean-Möbelpflege Plus (7222).

ORDERING INFORMATION

Size of trading unit

25 kg
More sizes on request.

Colour shades / Glosslevels

Bluefin Multilux U G05 (3851000105)
Bluefin Multilux U G10 (3851000110)
Bluefin Multilux U G20 (3851000120)
Bluefin Multilux U G30 (3851000130)
Bluefin Multilux U G40 (3851000140)
Bluefin Multilux U G50 (3851000150)
Bluefin Multilux U G70 (3851000170)
Bluefin Multilux U G90 (3851000190)

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. 6 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: 40 second – 43 second according to DIN 53211
(6 mm measuring cup, 20 °C)

Safety information



The product is only suitable for the industrial and professional 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.