

## Bluefin Multilux U

3851

Water-based, UV-curing furniture varnish for industrial use

U – universal quality

### PRODUCT DESCRIPTION

#### General

Water-based, UV curing clear varnish for wood with outstanding physical drying. Very good mechanical and chemical resistance, good transparency, good firmness on vertical surfaces as well as excellent body.

#### Special properties and standards

- **ÖNORM A 1605-12** (furniture surfaces):  
Resistance to chemical reactions: 1-B1  
Response to abrasion: 2-D ( $\geq 50$  U)  
Response to scratches: 4-D ( $\geq 1.0$  N)  
Flammability: 5-B (difficult to ignite furniture surface)
- **ÖNORM A 3800-1** (fire behavior) in conjunction with a flame-retardant substrate:  
flame-retardant (formerly B 1 acc. to B 3800 -1), Q1, Tr 1
- **DIN 68861** (furniture surfaces)  
Part 1: Response to chemical stress: 1 B  
Part 2: Response to abrasion: 2 D (over 50 to 150 U)  
Part 4: Response to scratches: 4 D ( $> 1,0$  bis  $\leq 1,5$  N)
- **ÖNORM S 1555** or **DIN 53160** Perspiration and saliva-proof properties
- **ÖNORM EN 71-3** Safety of toys; migration of certain elements (free of heavy metals)
- **French ordinance DEVL1104875A** regarding the marking of construction coating products for their emission of volatile pollutants: A+



#### Application areas



- 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 – IV in accordance with ÖNORM A 1610-12.
- Highly non-flammable or flame-retardant structures.

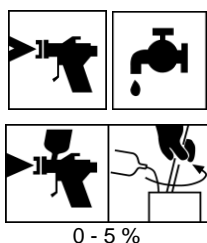
## PROCESSING

### Instructions for use



- 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 corresponding intermediate sanding results in optically appealing and high quality furniture surfaces.
- Various types of wood such as **oak, larch**, etc. contain water-soluble substances, which are activated by being coated with water-based furniture paints. 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 wood rich in active substances** we recommend priming them first with **ADLER Aqualux-Grund 3810 000200**. For **larch** we recommend **ADLER PUR-Primer 25291** 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 painting.
- As regards wood stains that can be used under water-based UV paints, please contact your technical adviser.
- Please follow our "**Working guidelines for water-based furniture varnishes**".

### Application technique



Application method	Airless	Airmix, air-supported (Airmix, Aircoat, etc.)	Cup gun
Spraying nozzle (ø mm)	0.23 - 0.33	0.23 - 0.33	2.0
Spraying pressure (bar)	100 - 120	100 - 120	approx. 3 - 4
Atomising air (bar)	-	1 - 2	-
Dilution (thinning)	water		
Thinner amount added in %	-	-	0 - 5
Application quantity (g/m <sup>2</sup> )	approx. 100 - 120 per application; total quantity applied (primer and top coat) max. 450		

The shape, the properties and moisture of the substrate affect the consumption/yield. Accurate values for consumption must be obtained by applying trial coats in advance.

**Drying conditions****Flashing off the water:**

35 - 45 min belt-type pallet drier (maximum temperature 50 °C)  
or  
15 - 20 min flat channel drier (maximum temperature 50 °C, air-speed approx. 2 m/s)

The figures given above are reference values, which must be coordinated with the respective facility. The drying time depends on the type of substrate, coat thickness, temperature, air exchange and relative atmospheric humidity.

**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 ADLER Aqua-Cleaner 80080 (diluted 1:1 with water).

**SUBSTRATE****Type of substrate**

Hard- and softwood

**Substrate property (or condition)**

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.

**Preparation of the substrate**

**Hardwoods:** Wood sanding with grit size 150 - 180  
**Softwoods:** Wood sanding with grit size 100 - 150

While grinding use at least dust filter P3 as personal protective equipment to protect against sanding and wood dust.

**COATING SYSTEM****Primer coat**

1 x Bluefin Multilux U 3851

**Intermediate sanding**

Manual grinding: Grit size 280 – 360  
Mechanical grinding: Grit size 400 – 600

While grinding use at least dust filter P3 as personal protective equipment to protect against sanding and wood dust.  
Avoid sanding straight through!

**Topcoat**

1 x Bluefin Multilux U 3851

**CLEANING AND MAINTENANCE****Cleaning & Care**

Cleaning with ADLER Clean Möbelreiniger 96490. Preservation of surfaces with degree of gloss G30 and higher with ALER Clean Möbelpflege (furniture preservative) 96491.

Please observe the relative technical data sheets of the products.

**ORDERING INFORMATION****Size of trading unit**

25 kg  
More sizes on request.

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<b>Color shades/degree of gloss</b>	Bluefin Multilux U is available in different gloss level gradations from
	G5 Naturmatt 3851 000105
	to
	G90 Seidenglänzend 3851 000190.

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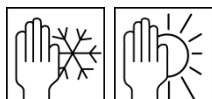
<b>Supplementary products</b>	ADLER Aqua-Cleaner 80080 ADLER Bandreinigungslösung 80066
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### FURTHER DETAILS

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#### Durability/storage



At least 6 months in the original sealed containers.

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

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#### Technical specifications

Delivery viscosity 40 - 43 s in accordance with DIN 53211 (6-mm-cup, 20°C)

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#### Safety-related information



Please pay attention to the associated safety data sheet! The current version can be accessed on the Internet at [www.adler-lacke.com](http://www.adler-lacke.com).

The product is only suitable for industrial use.

In general, inhaling paint aerosols must be avoided. This is ensured by correctly using a breathing mask (combination filter A2/P2 – EN 141/EN 143).

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