

## Bluefin Multilux OP

## 3850

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

**OP** - open-pored

### PRODUCT DESCRIPTION

#### General

Water-based, UV curing clear coat for wood with outstanding physical drying. Very good mechanical and chemical resistance, excellent pore pattern.

#### 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 (hardly inflammable furniture surface)
- **ÖNORM A 3800-1** (fire behaviour) 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)
- **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** regarding the marking of construction coating products for their emission of volatile pollutants: A+



#### Application areas



- For the industrial serial coating of furniture and interior finishing exposed to high levels of stress, such as hotel and school furnishings, kitchen and sanitary furniture: application areas II – IV in accordance with ÖNORM A 1610-12.
- For hardly inflammable or flame-retardant coating systems.

06-18 (supersedes 12-17) ZKL 3850

ADLER-Werk Lackfabrik, A-6130 Schwaz

Fon: 0043/5242/6922-301, Fax: 0043/5242/6922-309, Mail: [technical-support@adler-lacke.com](mailto:technical-support@adler-lacke.com)

Our instructions for use are based on knowledge available currently and shall guide the buyer/user to the best of one's knowledge, but, however, must be clarified for the areas of application and processing conditions on a case-to-case basis. The buyer/user is responsible for deciding on the suitability and use of the delivered product, which is why it is recommended to produce a sample to check the suitability of the product. Otherwise our General Terms of Sale apply. All previous data sheets are rendered invalid with the issue of this one. Rights reserved for the modification of the container sizes, colour shades and degrees of gloss available.

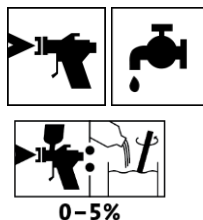
## PROCESSING

### 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 Top 3850 is designed above all for the "varnish-on-varnish" working method. Applying two spraying coats with corresponding intermediate sanding results in visually appealing and high quality furniture surfaces.
- Various types of wood such as **Oak, Larch**, etc. contain water-soluble substances, which become active when overcoating with water-based furniture varnishes. 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 **Bluefin Baselux 3810000200**. For **larch** we recommend **ADLER PUR-Primer 25291** as a base-coat.
- Bluefin Multilux OP 3850 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.
- For wood stains that can be used under water-based UV varnishes, please contact your technical adviser.
- Please observe the relative technical data sheets of the products.
- Please follow our "**Working guidelines for water-based furniture varnishes**".


### Application technique




| Application method                                       | Airless  | Airmix, air-supported (Airmix, Aircoat, etc.) | Cup gun       |
|--|--|---|---------------|
| Spray nozzle (ø mm)                                      | 0.23 - 0.33  | 0.23 - 0.33                                   | 2.0           |
| Spraying pressure (bar)                                  | 100 - 120  | 100 - 120                                     | approx. 3 - 4 |
| Atomized air (bar)                                       | -  | 1 - 2   | -             |
| Thinner  | water  |   |               |
| Thinner amount added in %                                | -  | -   | 0 - 5         |
| Application quantity per application (g/m <sup>2</sup> ) | approx. 100 - 120; 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.

|                          |  |
|--------------------------|--|
| <b>Drying conditions</b> | <p><b>Flashing off the water:</b></p> <p>35 - 45 min belt-type pallet drier (maximum temperature 50 °C)<br/>or<br/>15 - 20 min flat channel drier (maximum temperature 50 °C, air-speed approx. 2 m/s)</p> <p>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.</p> |
|--------------------------|--|


|   |  |
|---|--|
| <p><b>UV curing</b></p>  | <p>Feed 2 - 3 m/min (with one radiator)<br/>UV high-performance radiator 80 - 120 W/cm</p> <p>The feed can be increased in direct proportion to the number of radiators.</p> |
|---|--|

|  |  |
|--|--|
| <p><b>Cleaning the working equipment</b></p>  | <p>With water immediately after use.</p> <p>To remove dried paint residues we recommend using ADLER Aqua-Cleaner 80080 (diluted 1:1 with water).</p> |
|--|--|

## SUBSTRATE

|                                     |   |
|-------------------------------------|---|
| <b>Type of substrate</b>            | Hard- and softwood  |
| <b>Substrate property</b>           | 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.                                       |
| <b>Preparation of the substrate</b> | <p><b>Hardwoods:</b> wood sanding with grit size 150 - 180<br/><b>Softwoods:</b> wood sanding with grit size 100 - 150</p> <p>While grinding use at least dust filter P3 as personal protective equipment to protect against sanding and wood dust.</p> |

## COATING SYSTEM

|  |   |
|--|---|
| <b>Primer coat</b>   | 1 x Bluefin Multilux OP 3850  |
| <p><b>Intermediate sanding</b></p>  | <p>Manual grinding: Grit size 280 - 360<br/>Mechanical grinding: Grit size 400 - 600</p> <p>While grinding use at least dust filter P2 as personal protective equipment to protect against sanding and wood dust.<br/>Avoid sanding straight through!</p> |
| <b>Topcoat</b>   | 1 x Bluefin Multilux OP 3850  |

## CLEANING AND MAINTENANCE

|                                   |  |
|-----------------------------------|--|
| <b>Cleaning &amp; Maintenance</b> | <p>Cleaning with ADLER Clean Möbelreiniger 96490. Preservation of surfaces with degree of gloss G30 and higher with ADLER Clean-Möbelpflege Plus 7222000210.</p> <p>Please observe the relative technical data sheets of the products.</p> |
|-----------------------------------|--|

## ORDERING INFORMATION

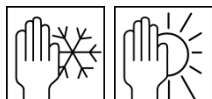
|                             |                                 |
|-----------------------------|---------------------------------|
| <b>Size of trading unit</b> | 25 kg<br>More sizes on request. |
|-----------------------------|---------------------------------|

|   |   |
|---|---|
| <b>Colour shades / degrees of gloss</b> | Bluefin Multilux OP is available in different gloss level gradations from<br>G3 Ultramatt 3850000103 till<br>G90 Seidenglänzend (silk-glossy) 3853000190. |
|---|---|

|                               |  |
|-------------------------------|--|
| <b>Supplementary products</b> | Bluefin Baselux 3810000200<br>ADLER Aqua-Cleaner 80080<br>ADLER Bandreinigungslösung 80066<br>ADLER Clean Möbelreiniger 96490<br>ADLER Clean Möbelpflege 96491 |
|-------------------------------|--|

## FURTHER DETAILS

### 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).

### Technical specifications

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

### Safety-related information



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](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 respiratory mask (combination filter A2/P2 – EN 141/EN 143).