

# ADLER Aqualux MSL Eco Thix

29040 ff

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

## PRODUCT DESCRIPTION

### General

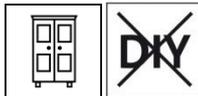
Water-dilutable, UV curing varnish for wood with outstanding physical drying. Very good mechanical and good chemical resistance, very good transparency, good firmness on vertical surfaces as well as excellent body.

### Special properties and standards

- **ÖNORM A 1605-12** (furniture surfaces):  
Resistance to chemical reactions: 1-B  
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)
- **French ordinance DEVL1104875A** regarding the marking of construction coating products for their emission of volatile pollutants: A+



### Application areas



- For large-scale industrial coating of furniture and interior finishing exposed to normal levels of stress such as bedroom suite and living room furniture: application areas III to IV according to 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.
- ADLER Aqualux MSL Eco Thix 29040 ff is designed above all for the "varnish-on-varnish" working method. Applying two coats with corresponding intermediate sanding results in optically appealing and high quality furniture surfaces.
- Different types of wood such as **oak, larch** etc. contain water-soluble components, which can be activated by being painted with water-thinnable furniture varnishes. Depending on the origin of the timber different levels of discolouration (greenish cast) can occur when the painted areas are exposed to

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Our instructions for use are based on knowledge available currently and shall guide the purchaser / 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 takes responsibility for the suitability and use of the delivered product. It is therefore recommended to produce a sample specimen for testing the suitability of the product. Our general terms and conditions of sale are otherwise applicable. 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.

daylight. When painting **oak** and **other types of wood rich in active substances** we recommend priming them first with **ADLER Aqualux-Grund 29003**. For **larch** we recommend **ADLER PUR-Primer 25291**.

- 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.

- ADLER Aqualux MSL Eco Thix 29040 ff is not recommended for the top coating of white pigmented surfaces.
- ADLER Aqualux MSL Eco Thix G5 29040 and Ultramatt 29050 are not recommended for dark or dark stained timbers.
- 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 %	-	-	approx. 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

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

1 x ADLER Aqualux MSL Eco Thix 29040 ff

**Intermediate sanding**

Grit size 240 – 320

Avoid sanding straight through!

**Topcoat**

1 x ADLER Aqualux MSL Eco Thix 29040 ff

**CLEANING AND MAINTENANCE****Cleaning & Maintenance**

Cleaning with ADLER Clean Möbelreiniger (furniture cleaner) 96490. Preservation of surfaces with degree of gloss G30 and higher with ADLER 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.

**Color shades/degree of gloss**

G5	Naturmatt (natural matt)	29040
G10	Stumpfmatt (dull matt)	29041
G30	Matt	29043
G40	Matt	29044
G50	Halbmatt (semi-matt)	29045
G70	Seidenmatt (silk matt)	29047
	Ultramatt	29050

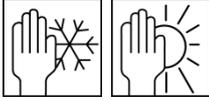
**Supplementary products**

ADLER Aqua-Cleaner 80080  
ADLER Aqualux-Grund 29003  
ADLER PUR-Primer 25291  
ADLER Clean-Möbelreiniger 96490  
ADLER Clean-Möbelpflege 96491

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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 60 ± 5 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 and professional 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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