

ADLER Aqualux MSL

29181 ff

Water-based, UV-curing clear coat for furniture and for **industrial use**.

PRODUCT DESCRIPTION

General

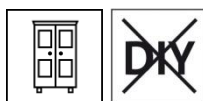
Water-dilutable, UV-curing clear coat for wood with salient physical surface drying. Excellent mechanical and chemical resistance, optimal transparency, good firmness on vertical surfaces and also excellent filling capacity.

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 (highly non-flammable furniture surfaces)
- **ÖNORM A 3800-1** (Fire behaviour) in conjunction with a flame-retardant substrate:
highly non-combustible or flame-retardant (formerly B 1 in accordance with 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 (above 50 to 150 U)
Part 4: Response to scratches: 4 D (> 1.0 to ≤ 1.5 N)
- **ÖNORM S 1555 resp. DIN 53160** Perspiration and saliva-proof properties
- **ÖNORM EN 71 Part 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+



Areas of application



- Industrial large-scale coating of furniture and indoor surfaces exposed to high levels of stress, for hotel and school establishments, for kitchen furniture and sanitary ware: Application areas II – IV (ÖNORM A 1610-12)
- For hardly inflammable and flame retardant coatings

03-14 (supersedes 07-12) ZKL 3717

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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 purchaser / user decides about the acceptance and use of the delivered product at his / her own risk, which is why we recommend that a sample piece be prepared to check the acceptability 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 modification of the container sizes, colour shades and degree of gloss.

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 29181 ff is mainly destined for a varnish-on-varnish application. To obtain high-quality and optically attractive furniture surfaces spray twice with the relative intermediate sanding.
- Various types of wood such as **oak and larch**, etc. contain water-soluble substances, which become active when applying a topcoat using water-based furniture paints. Depending on the origin of the wood, discolorations of varying distinction (e.g. a green cast) can result if the varnished surfaces are exposed to daylight. Therefore, when varnishing **oak and other woods which are rich in these wood substances**, we recommend pre-priming with **ADLER Aqualux-Grund 29003**. For **larch** we recommend the primer **ADLER PUR-Primer 25291**.
- ADLER Aqualux MSL 29181 ff distinguishes itself by its outstanding transparency and good intensification of the wood substrate. If, on dark woods, an even stronger intensification is desired then they should be stained before varnishing.
- Our development department will be pleased to inform you about the possible use of stains under water-based UV-coatings.
- Please follow our „**Working guidelines for water-based furniture varnish**“.

Application technique



Application method	Airless	Airless 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	ca. 3 - 4
Atomized air (bar)	-	1 - 2	-
Dilution (thinning)	Water		
Thinner amount added in %	-	-	ca. 5
Application quantity (gm/m ²)	approx. 100 - 120 per application; Total application quantity (primer coat and topcoat): maximum 450		

Drying times

Water flash-off:

35 - 45 min belt-type pallet drier (maximum temperature 50 °C)
or

15 - 20 min flat-channel-drier (maximum temperature 50 °C, air velocity approx. 2 m/s)

The figures indicated serve as a guide value, which must be coordinated with the relative installation. The drying time depends on the type of wood, coat thickness, temperature, air exchange and relative atmospheric humidity.

UV-Curing

Feed rate 2 - 3 m/min (with one radiator)
High-intensity UV-radiator 80 - 120 W/cm

The feed rate can be raised direct proportional with the numbers of radiators.

Cleaning the tools and equipment

Clean with water immediately after use.

Eliminate rests of dry paint with ADLER Aqua-Cleaner 80080 (diluted 1:1 with water).

SUBSTRATE**Type of substrate**

Hardwood and softwood

Substrate property (or condition)

The substrate must be dry, clean, stable, free of grease and wax and free from wood dust.

Preparation of the substrate

- **Hardwood:** sanding using grain size 150 – 180
- **Softwood:** sanding using grain size 100 – 150

Use dust filter P3 while sanding or grinding.

COATING SYSTEM**Primer coat**

1 x ADLER Aqualux MSL 29181 ff

Intermediate sanding

Grain size 280 - 360

Use dust filter P2 while sanding or grinding.

Avoid sanding straight through!

Topcoat

1 x ADLER Aqualux MSL 29181 ff

CARE & REFURBISHMENT

Clean with ADLER Clean Möbelreiniger 96490;
Maintain with ADLER Clean Möbelpflege 96491.

Please observe the relative technical data sheets of the products

ORDERING INFORMATION**Size of trading unit**

25 kg
Other trading units on request.

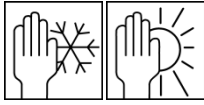
Colour / Degree of gloss

G10 Stumpfmatt	29181
G30 Matt	29183

By-products

ADLER Aqua-Cleaner	80080
ADLER Bandreinigungslösung	80066

FURTHER DETAILS

Durability / Storage

At least 6 month in the original sealed containers.

Store it such that it is protected against moisture, direct sunlight, frost and high temperatures.

Technical specifications

Delivery viscosity 175 - 180 s according to DIN 53211 (4-mm-cup, 20 °C)

Safety-relevant information

Please follow the associated safety data sheet! The latest version can be retrieved from the Internet at **www.adler-lacke.com**.

In general, you must avoid inhaling paint aerosols. This is ensured by proper use of a breathing mask (combination filter A2/P2 – EN 141/EN 143).
