ADLER Pigmolux DC UNI 29301 ff

Water-based **radiation-curing pigment paint** for industrial coating for **furniture and interior finishing**

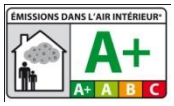
PRODUCT DESCRIPTION

General

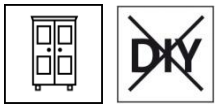
Water-based pigment paint for wood surfaces in the furniture segment. The coating material is cured with the help of two different cross-linking mechanisms (curing by radiation and 2-component polyurethane cross-linking). With the help of this special curing system (Dual cure), even those areas of the work-piece that are inadequately illuminated by the beams – opaque spots – are cross-linked completely. It provides good mechanical and chemical resistance, excellent resistance against exposure to light, good filling power and outstanding stackability.

Special Properties and Standards

- **ÖNORM A 1605-12** (Furniture surfaces)
  Resistance to chemical reactions: 1-B1 (with the exception of pure white)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 (with the exception of pure white)
  Part 2: Response to abrasion: 2 D (over 50 to 150)
  Part 4: Response to scratches: 4 E (> 0.5 to ≤ 1.0 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 area

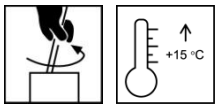


- Open-pore and closed-pore coated pigment paint surfaces for series painting in the industry of all highly stressed furniture surfaces including surfaces in the kitchen and sanitary areas: Application areas II to IV according to ÖNORM A 1610-12.
- Highly non-flammable or flame-retardant structures

ADLER-Werk Lackfabrik, A-6130 Schwaz
Tel.: 0043/5242/6922-301, Fax: 0043/5242/6922-309, E-mail: technical-support@adler-lacke.com

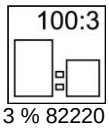
PROCESSING

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.
- In order to achieve the **maximum chemical resistance** and **surfaces resistant to ring indentation**, we recommend applying a topcoat of ADLER Aqualux-Top 29091 ff in the desired degree of gloss.
- When coating interior doors, it must be ensured that only sealing profiles compatible with acrylic paints and lacquers are used.
- Please follow our "**Working guidelines for water-based furniture paints / lacquers**".

Blending ratio



3 % 82220

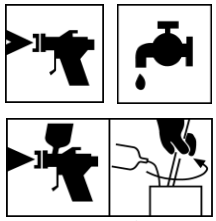
100 parts by weight of ADLER Pigmolux DC UNI 29301 ff
3 parts by weight of ADLER Aqua-PUR-Härter (Hardener) 82220

ADLER Aqua-PUR-Härter 82220 must be carefully mixed with the painting component by stirring before use. We recommend waiting for about 10 min. before use.

Pot Life

4 hours; the mixed material must necessarily be mixed after 4 hours with 1:1 freshly hardened material; it is not possible to extend the pot life beyond this.

Application technique


Max. 5 %

Application method	Airless	Airless pressurized (Airmix, Aircoat, etc.)	Cup gun
Spray nozzle (ø mm)	0.28 – 0.33	0.28 – 0.33	1.8
Spraying pressure (bar)	100 – 120	100 – 120	3 - 4
Spraying air (bar)	-	1 – 2	-
Dilution (thinning)	Water		
Thinner amount added in %	-	-	0 - 5
Viscosity (s) (4 mm cup, 20°C)	155	155	120
Application quantity (g/m²)	approx. 100 – 150 per application; Total application quantity max. 450 - Closed-pore surfaces: approx. 120 - Open-pore surfaces: approx. 150 – 200		

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

Drying conditions

- Evaporation of the water
- 45 - 60 min. belt-type pallet dryer or 30 - 40 min. flat surface dryer, temperature rising up to max. 50 °C

- The system parameters mentioned are reference values that need to be adjusted to the respective system. The drying depends, for example, on the type of wood, coat thickness, temperature, air exchange and relative atmospheric humidity.

UV curing

Feed of 2 - 3 m/min. when using 1 Ga-doped beam and 1 Hg beam (Power: 80 W/cm²)

Pay attention to a sufficient hardening of the edges!

Cleaning the working equipment

Clean the working equipment with water or Aqua-Cleaner 80080 (diluted 1:1 with water).

SUBSTRATE

Type of substrate

For opaque coating, suitable solid wood or plywood or wood fibre materials, veneered or laminated with priming film.

Substrate property (or condition)

The substrate must be dry, clean and capable of holding the paint and it must be free of grease and wax and free from wood dust.

Preparation of the substrate

Sanding grain size 150 – 180

For **laminated particle boards**: Sanding grain size 180 – 220

COATING SYSTEM

Primer coat

For closed-pore dull-finish paint surfaces

a) Particle board coated with primer film (film sanding grain size 240), possibly primer-coated with 1 coat of ADLER Aqualux-Spritzfüller Weiß (Spray filler white) 29211 (2-component), intermediate sanding with grain size 320 - 360
b) Solid wood or particle board veneered with cross veneer, with 2 primer coats of ADLER Aqualux-Spritzfüller Weiß (Spray filler white) 29211 (2-component), intermediate sanding with grain size 280 - 320
c) MDF boards, with 2 to 3 primer coats of ADLER Aqualux-Spritzfüller Weiß (Spray filler white) 29211 (2-component), intermediate sanding with grain size 280 - 320

For open-pore dull-finish paint surfaces

Apply preliminary insulation using 150-200 g/m² ADLER Aqualux-Spritzfüller Weiß (Spray filler white) 29211 (2-component) for

- wood types having water-soluble staining wood extractives (e.g. ash)
- Structures in RAL 9010 "Reinweiß" (Pure white) colour shade and in pastel shades

For structures having full shades, it is adequate to apply a prime coat with 150 - 200 g/m² ADLER Pigmolux DC UNI 29301 ff.

Please observe and follow the data sheets of the respective products.

Intermediate sanding 	Grain size 280 – 360 Avoid through sanding at all costs! Please use only grain size 280 for pastel shades and RAL 9010. Use dust filter P2 while sanding or grinding.
Topcoat	Apply 1 coat of ADLER Pigmolux DC UNI 29301 ff in the desired colour shade

PRESERVATION

For cleaning, use ADLER Clean Möbelreiniger (Furniture cleaner) 96490 and preserve using ADLER Clean Möbelpflege (Furniture preservative) 96491.

Please observe and follow the data sheets of the respective products.

ORDERING INFORMATION

Size of trading unit

25 kg

Colour shades / Degree of gloss

ADLER Pigmolux DC UNI G50 Weiß (White) 29301

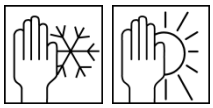
RAL colour shades, NCS colour shades etc. can be delivered as specially manufactured lots.

By-products

ADLER Aqua-PUR-Härter (Hardener)	82220
ADLER Aqualux-Spritzfüller Weiß (spray filler, white)	29211
ADLER Aqualux-Top	29091 ff
ADLER Aqua-Cleaner	80080
ADLER Clean-Möbelreiniger	96490
ADLER Clean-Möbelpflege	96491

FURTHER DETAILS

Durability / Storage



At least 12 months in the original sealed containers.

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

Technical Specifications

Delivery viscosity	155 - 160 s in accordance with 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).