ADLER Pigmolux DC ML 29232 ff

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

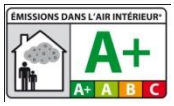
PRODUCT DESCRIPTION

General

Water-based, matt pigment paint for wooden 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 chemicals resistance, excellent resistance against exposure to light, good filling power and outstanding stackability.

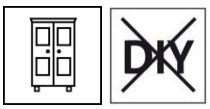
Special properties and standards

- **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 large-scale industrial coating of furniture surfaces exposed to high levels of stress including kitchen furniture and sanitary facilities: Application areas II to IV according to ÖNORM A 1610-12.
- Highly non-flammable or flame-retardant structures

ADLER-Werk Lackfabrik, A-6130 Schwaz
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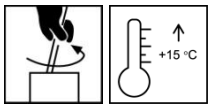
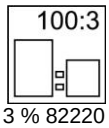
PROCESSING

Instructions for application



- 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 G5 29090.
- 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 varnishes**".

Blending ratio



3 % 82220

100 parts by weight of ADLER Pigmolux DC ML 29232 ff
3 parts by weight of ADLER Aqua-PUR-Härter (Hardener) 82220

ADLER Aqua-PUR-Härter (Hardener) must be incorporated carefully in the painting component by stirring. After adding the hardener, it is recommended to wait for about 10 min. before use.

Pot Life

After 4 hours it is absolutely necessary to mix blended material 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 air-supported** (air mix, air coat, etc.)	**Cup gun (gun over the pot)**
Spraying nozzle (ø mm)	0.28 - 0.33	0.28 – 0.33	1.8
Spraying pressure (bar)	100 – 120	100 – 120	3 - 4
Atomized air (bar)	-	1 – 2	-
Dilution (thinning)	Water		
Thinner amount added in %	-	-	0 - 5
Viscosity (sec.) 4-mm-cup, 20°C	175	175	150
Application quantity (gm/m²)	approx. 100 – 150 per application; Total application quantity max. 450 - Closed-pore surfaces: approx. 120 - Open-cell 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)

Attention must be paid to adequate curing at the edges!

Cleaning the tools and 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 from wood dust.

Preparation of the substrate

Intermediate sanding with grain size 150 - 180

Film-coated particle boards:
Intermediate sanding with grain size 180 - 220

COATING SYSTEM

Primer coat

For closed-pore dull-finish paint surfaces

a) Film-coated particle boards (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 gm/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 for overtones on wood types rich in extractives, applying a primer coat of 150 - 200 gm/m² of ADLER Pigmolux DC ML 29232 ff is sufficient. Please observe the relative technical data sheets of the products.
Intermediate sanding 	Grain size 280 - 360 Avoid through sanding! Please use only grain size 280 for pastel shades and RAL 9010.
Topcoat	Apply 1 coat of ADLER Pigmolux DC ML 29232 ff in the desired colour shade

MAINTENANCE

Clean using ADLER Clean Möbelreiniger (furniture cleaner) 96490

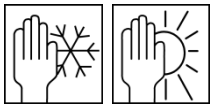
Do not use any preservative products on matt surfaces!

Please observe the relative technical data sheets of the products.

ORDERING INFORMATION

Size of trading unit	25 kg
Colour / degree of gloss	ADLER Pigmolux DC ML Kieselgrau (Pebble grey) 29232 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 (White) 29211 ADLER Aqualux-Top G5 29090 ADLER Aqua-Cleaner 80080 ADLER Clean-Möbelreiniger (Furniture cleaner) 96490

OTHER INSTRUCTIONS

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: 175 - 180 sec. 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).