

ADLER Pigmolux DC ST74

35301 ff

Water-based, radiation-curing structural effect pigment coating for furniture and interior finishing for industrial use

PRODUCT DESCRIPTION

General

Water-based structural effect pigment coating for closed-pore, coated wood surfaces in the furniture sector. 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. Good mechanical and chemical resistance, excellent light resistance, good filling power, very good stackability.

Special properties and standards

- **ÖNORM A 1605-12** (furniture surfaces)
Resistance to chemical reactions: 1-B1 (except for pure white)
Response to abrasion: 2-D (≥ 50 U)
Response to scratches: 4-D (≥ 1.0 N)
Flame treatment: 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 (except for pure white)
Part 2: Response to abrasion: 2 D (over 50 to 150 U)
Part 4: Response to scratches: 4 E (> 0.5 until ≤ 1.0 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 coating of furniture and interior finishing exposed to high levels of stress, such as kitchen and bathroom furnishing, tabletops: application areas II – IV in accordance with ÖNORM A 1610-12.
- For hardly inflammable or flame-retardant coating systems.

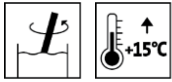
08-18 (supersedes 07-14) ZKL 3307

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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.
- When coating interior doors, it must be ensured that only sealing profiles compatible with acrylic paints are used.
- Please follow our “**Working guidelines for water-based furniture varnishes**”.

Blending ratio



100 parts by weight of ADLER Pigmolux DC ST74 35301 ff
5 parts by weight of ADLER Aqua-PUR-Härter 82221

ADLER Aqua-PUR-Härter 82221 must be carefully worked into the paint components by stirring before processing. We recommend observing a waiting time of approx. 10 min. before processing.

Alternatively, ADLER Aqua-PUR-Härter 8235000210 can also be used in the same mixing ratio.

Pot life



4 hours

An extension of the pot life by mixing with freshly hardened paint material is not possible! Increased temperatures reduce the pot life.

Application technique



Application method	Airless	Airless air-supported (Airmix, Aircoat, etc.)
Spray nozzle (ø mm)	0,28 - 0,33	0,28 - 0,33
Spraying pressure (bar)	100 - 120	100 - 120
Atomized air (bar)	-	1 - 2
Viscosity (s) 6-mm-cup, 20°C	90	90
Application quantity per application (g/m ²)	approx. 100 - 150; total application amount max 450	

The product is ready to use.

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:
- 45 - 60 min. belt-type pallet dryer or 30 - 40 min. flat surface dryer, temperature rising up to max. 50 °C
- 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 rate 2 - 3 m/min when using 1 Ga-doped radiator and 1 Hg radiator (power: 80 W/cm²)

Attention must be paid to adequate curing at the edges!

Cleaning the working equipment

With water or ADLER Aqua-Cleaner 80080 (diluted 1:1 with water).

SUBSTRATE**Type of substrate**

Solid wood or wood chip or wood fibre materials suitable for opaque varnishing, veneered or coated with priming film.

Substrate property

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

Sanding with grit size 150 - 180

Film-coated chip boards:

Sanding with grit size 180 - 220

COATING SYSTEM**Primer****For closed-pore surfaces**

- a) Film-coated particle boards (film sanding grit size 240) possibly one primer coat using ADLER Aqualux Spritzfüller Weiß 29211 (two component), intermediate sanding grit size 320 - 360
- b) Solid wood or chipboard veneered with blind veneer (e.g. beech), 2 x primed with ADLER Aqualux Spritzfüller Weiß 29211 (two component), intermediate sanding grit size 280 - 320
- c) MDF boards, 2 - 3 x primed with ADLER Aqualux Spritzfüller Weiß 29211 (two component), intermediate sanding grit size 280 - 320

Please observe the relative technical data sheets of the products.

Intermediate sanding

Grit size 280 - 360

Avoid sanding straight through!

Please use only grit size 280 for pastel shades and RAL 9010.

Topcoat

1 x ADLER Pigmolux DC ST74 35301 ff in the desired colour shade

CLEANING & MAINTENANCE**Cleaning & Maintenance**

Cleaning with ADLER Clean-Möbelreiniger 96490.

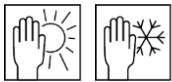
Do not use any maintenance products on structured surfaces!

Please observe the relative technical data sheets of the products.

ORDERING INFORMATION

Size of trading unit	25 kg	
Colour shades / degrees of gloss	ADLER Pigmolux DC ST74 Weiß	35301
	Other colour shades are available as special productions.	
Supplementary products	ADLER Aqua-PUR-Härter	82221
	ADLER Aqua-PUR-Härter	8235000210
	ADLER Aqualux-Spritzfüller Weiß	29211
	ADLER Aqua-Cleaner	80080
	ADLER Clean-Möbelreiniger	96490

FURTHER DETAILS

Durability / storage

At least 12 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	90 ± 5 s in accordance with DIN 53211 (6-mm-cup, 20°C)
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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.

The product is only suitable for industrial use.

Inhaling paint aerosols whilst spraying must generally be avoided. This is ensured by correctly using a respiratory mask (combination filter A2/P2 – EN 141/EN 143).
