

ADLER Pigmolux DC ST71

29450 ff

Water-based, pigmented **radiation-curing structural effect paint for furniture and interior finishing** for industrial use

PRODUCT DESCRIPTION

General

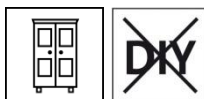
Water-based pigmented structural effect paint for wooden surfaces in the furniture segment. The coating material is cured with the help of two different cross-linking mechanisms (curing by radiation and 2-component polyurethane cross-linking). With the help of this special curing system (Dual cure), 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 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



- 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

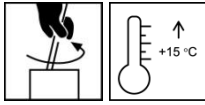
10-14 (supersedes 07-14) ZKL 3304

ADLER-Werk Lackfabrik, A-6130 Schwaz
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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 the modification of the container sizes, colour shades and degrees of gloss available.

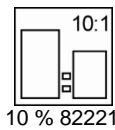
PROCESSING

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 and lacquers are used.
- Please follow our "**Working guidelines for water-based furniture paints / lacquers**".

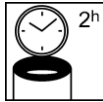
Blending ratio



100 parts by weight of ADLER Pigmolux DC ST71 29450 ff
10 parts by weight of ADLER Aqua-PUR-Härter (hardener) 82221

ADLER Aqua-PUR-Härter 82221 must be carefully mixed with the painting component by stirring before use. We recommend waiting for about 10 min. before use.

Pot Life



2 hours

It is not possible to extend the pot life beyond this using freshly hardened coating material.

Application technique



Application method	Airless	Airless pressurized (Airmix, Aircoat, etc.)
Spraying nozzle (ø mm)	0.28 – 0.33	0.28 – 0.33
Spraying pressure (bar)	100 – 120	100 – 120
Atomized air (bar)	-	1 – 2
Dilution (thinning)	Water	
Thinner amount added in %	-	-
Viscosity (s) (4-mm-cup, 20°C)	approx. 200	approx. 200
Application quantity (g/m ²)	approx. 100 – 150 per application; Total application quantity max. 450	

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

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, capable of holding the paint and free of grease, wax and wood dust.

Preparation of the substrate

Sanding grain size Kö 150 – 180

Film-coated 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 sanding grain size 180 (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 (Beech), 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

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

1 x ADLER Pigmolux DC ST71 29450 ff in the desired colour shade

MAINTENANCE

For cleaning use ADLER Clean-Möbelreiniger 96490 (furniture cleaner).

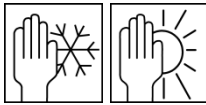
Do not use preservation products on structured surfaces.

Please observe the relative technical data sheets of the products.

ORDERING INFORMATION

Size of trading unit	25 kg	
Colour shades / degree of gloss	ADLER Pigmolux DC ST71 Weiß (white)	29450
	RAL colour shades, NCS colour shades etc. can be delivered as specially manufactured lots.	
Supplementary products	ADLER Aqua-PUR-Härter	82221
	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.

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

Technical specifications

Delivery viscosity	about 180 s in accordance with DIN 53211 (4-mm-cup, 20°C)
Mixing viscosity	200 s ± 10 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).
