

Technical data sheet

Aduro Pigmocolor 4in1

2241 ff

High-quality, solvent-based pigmented coating, can be used directly on MDF, for **furniture and interior finishing for industrial and professional use**

PRODUCT DESCRIPTION

General

Fast-drying two-component polyurethane pigment coating for furniture surfaces. Very good filling power, good grindability, very good chemical and mechanical resistance, very good ring indentation resistance and good firmness on vertical surfaces; can be applied directly on MDF boards (please pay attention to the information on "MDF boards" given in the following!).

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 (hardly inflammable furniture surface)
- **DIN 68861** (furniture surfaces)
Part 1: Response to chemical stress: 1 B
Part 2: Response to abrasion: 2 D (over 50 up to 150 U)
Part 4: Response to scratches: 4 D ($> 1,0$ up to $\leq 1,5$ N)
- **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 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 high-quality, pigmented coating systems of furniture and interior finishing including surfaces in the kitchen and sanitary areas: Application areas II – IV in accordance with ÖNORM A 1610-12.
- For the efficient coating of MDF boards in the so-called "varnish-on-varnish" process: with 2 to 3 coats of Aduro Pigmocolor 4in1, full surfaces with very good ring test resistance are achieved on MDF boards; Aduro Pigmocolor 4in1 fulfils the functions of isolation, filler, varnish and spray coat.

02-21 ZKL 2241, 2243, 2245

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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. 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.

- For highly stressed surfaces (tables, chairs, etc.), we basically recommend the application of ADLER Pigmotop 25363 - 25367 or ADLER Legnopur 26211 ff. Thereby you can achieve surfaces, which are absolutely resistant to ring indentation.

PROCESSING

Instructions for use



- If a different gloss level is required (higher than G50), after a drying time (room temperature) of minimum 3 and maximum 8 hours without intermediate sanding, a suitable spray coating (e.g. ADLER Pigmotop G70 25367 or ADLER Legnopur G70 26217) can be applied in the desired gloss level.
- Please stir the product before use.
- Please observe our **ARL 131 - Working guidelines for PUR furniture paints**.
- Please observe the relative technical data sheets of the products.

Blending ratio



10% 82019

10 parts by weight or volume Aduro Pigmcocolor 4in1 2241 ff
1 part by weight or volume ADLER PUR-Härter 82019

If **faster drying** is required, the following hardener / mixing ratio can be used as an alternative to ADLER PUR-Härter 82019:



20% 82040

5 parts by weight or volume Aduro Pigmcocolor 4in1 2241 ff
1 part by weight or volume ADLER PUR-Härter S 82040

Aduro Pigmcocolor 4in1 can only be used with a hardener and in the mixing ratio specified. Deviations lead to film and adhesion problems.

Pot Life



82019



82040

With ADLER PUR-Härter 82019:

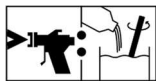
8 hours

With ADLER PUR-Härter 82040:

5 hours

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

Application technique



15-20%



20-25%

| Application method | Airless | Airless air-supported (Airmix, Aircoat, etc.) | Cup gun |
|--|--|---|-----------------|
| Spray nozzle (ø mm) | 0,28 - 0,33 | 0,28 - 0,33 | 1.8 - 2.0 |
| Spraying pressure (bar) | 100 - 120 | 100 - 120 | 3 - 4 |
| Atomized air (bar) | - | 1 - 2 | - |
| Thinner | ADLER DD-Verdünnung 80019 or ADLER PUR-Verdünnung 80029 | | |
| Thinner added in % | approx. 15 - 20 | approx. 15 - 20 | approx. 20 - 25 |
| Viscosity (sec.): 4 mm cup, 20 °C | approx. 25 | approx. 25 | approx. 20 |
| Application quantity per application (g/m ²) | approx. 150 - 200 per application; total quantity applied max. 750 | | |

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 times

(at 23 °C and 50 % rel. humidity)



5h

| | |
|---------------------------|-----------------------|
| Sandable and recoatable | after approx. 5 hours |
| Manipulable and stackable | drying overnight |

In order to improve the firmness of the subsequent coat, we recommend drying overnight at room temperature.

The figures given above are reference values. The drying time depends on the type of substrate, coat thickness, temperature, air exchange and relative atmospheric humidity.

Cleaning the working equipment



With ADLER DD-Verdünnung 80019 or ADLER Waschverdünnung 80077.

SUBSTRATE

Type of substrate

- Carrier plates coated with priming film
- MDF panels:

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

- Carrier plates coated with priming film:
film sanding with grit size 240
- MDF panels:
cleaning / smooth sanding with grit size 180 - 220

Aduro Pigmocolour 4in1 can be used directly on MDF boards of good quality and with a high moulded density (e.g. on 19-mm boards greater than 700 kg/m³) without pre-insulation. Boards of lower qualities must be pre-insulated before the first layer of filler (e.g. with ADLER DD-Isoliergrund 25103 or ADLER Legnopur 26211 ff).

For sanitary applications, we generally recommend the use of moisture-resistant MDF boards with pre-insulation. It is not recommended for use on horizontal surfaces that are frequently exposed to water, such as washstands.

COATING SYSTEM

Primer

1 - 3 x Aduro Pigmocolour 4in1 2241 ff, depending on the desired substrate and body.

Intermediate sanding



Grit size 280 - 320

Intermediate sanding must be done immediately prior to applying the topcoat in order to ensure proper intermediate adhesion.

Avoid sanding straight through!

Topcoat

1 x Aduro Pigmocolour 4in1 2241 ff

CLEANING & MAINTENANCE

Cleaning and maintenance

Cleaning with ADLER Clean Möbelreiniger 96490. Preservation with ADLER Clean-Möbelpflege Plus 7222000210.

Please observe the relative technical data sheets of the products.

ORDERING INFORMATION

Size of trading unit

1 kg, 4 kg, 20 kg

Colour shades / degrees of gloss

Standard colours:

| | |
|------------------|------------|
| G50 Weiß W10 G50 | 2245000010 |
| G50 RAL 9010 | 2245009010 |
| G50 Schwarz | 2245500001 |

Other tinting bases:

| | |
|---------------|------------|
| Basis W10 G10 | 2241000010 |
| Basis W30 G10 | 2241000030 |
| Basis W30 G50 | 2245000030 |

Other colour shades can be obtained using the **ADLER colour mixing system ADLER PUR-Mix**.

ADLER
PUR | MIX
 Pigmentkonzentrat



Gloss level

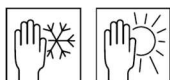
| | |
|---------------|------|
| G10 stumpmatt | 2241 |
| G30 matt | 2243 |
| G50 halbmatt | 2245 |

Supplementary products

ADLER PUR-Härter 82019
ADLER PUR-Härter S 82040
ADLER DD-Verdünnung 80019
ADLER PUR-Verdünnung 80029
ADLER DD-Isoliergrund 25103
ADLER Pigmotop 25363 - 25367
ADLER Legnopur 26211 ff
ADLER Waschverdünnung 80077
ADLER Clean-Möbelreiniger 96490
ADLER Clean-Möbelpflege Plus 7222000210

FURTHER DETAILS

Durability / storage



At least 1 year 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 | approx. 60 ± 5 s in accordance with DIN 53211 (4 mm cup, 20 °C) |
| Mixing viscosity with 82019 | approx. 50 ± 5 s in accordance with DIN 53211 (4 mm cup, 20 °C) |
| Mixing viscosity with 82040 | approx. 45 ± 5 s in accordance with DIN 53211 (4 mm cup, 20 °C) |

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 the industrial and professional use

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