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Technical data sheet

Paint runs through our veins.

Aduro Pigmocolor 4in1 G50 2245

High-quality, solvent-based **pigmented paint**, can be applied directly onto **MDF**, for **furniture and interior finishing**, for use in **industry and trade**

PRODUCT DESCRIPTION

General

Fast-drying 2C polyurethane pigmented paint for furniture surfaces. Very good filling performance, easy to sand, outstanding chemical and mechanical resistance, very good ring test resistance and good stability on vertical surfaces; can be applied directly onto MDF boards (please read the information to follow: "MDF boards"!).

Special properties and standards

- **ÖNORM A 1605-12 (furniture surfaces)**
  Confirmed by an external test certificate.
  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)**
  Confirmed by an external test certificate.
  Part 1: Response to chemical stress: 1 B
  Part 2: Response to Abrasion: 2 D (> 50 to ≤150 U)
  Part 4: Response to scratches: 4 D (> 1,0 to ≤ 1,5 N)
- **EN 13501-1 (fire behaviour)**
  Confirmed by an external test certificate.
  In combination with a non-combustible substrate, e.g. materials of fire class A1 or A2: classification as B-s1, d0. For the classification of the reaction to fire, the complete build-up (carrier board / glue / veneer or foil) is always taken into account.
- **ÖNORM A 3800-1 (fire behaviour)**
  In conjunction with a flame-retardant substrate: flame-retardant, 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**
  Marking of construction coating products for their emission of volatile pollutants: A+

PACHE SARL

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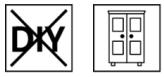
Our instructions are based on the current state of knowledge and are intended to advise the buyer/user to the best of our knowledge, but must be individually adapted to the areas of application and processing conditions. The buyer/user is responsible for deciding on the suitability and use of the supplied product, which is why we recommend that a sample be produced to check the suitability of the product. In all other respects, our General Terms and Conditions of Sale apply. All previous data sheets lose their validity with this edition. We reserve the right to make changes to container sizes, color shades and available gloss levels.

Application area



For use with high-quality pigmented coating systems in furniture and interior finishing, including surfaces in kitchens and bathrooms: areas of application II – IV in accordance with ÖNORM A 1610-12.

For effective coating of MDF boards using the so-called "coat-on-coat" method: with 2 or 3 applications of Aduro Pigmocolor 4in1 G50 (2245), you can achieve a rich and substantial surface with very good ring test resistance on MDF boards. Aduro Pigmocolor 4in1 G50 provides the functions of an isolating effect, filler, coloured coating and spray-on coating.

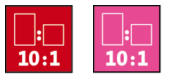
For surfaces that are subject to heavy wear (tables, chairs, etc.), we generally recommend the application of a topcoat of Aduro Pigmotop (2514) or Aduro Legnopur (2513), as this will ensure surfaces that are highly durable and have very good ring test resistance.

PROCESSING

Processing instructions

- Please stir the product before use.
- If you want to achieve a different level of gloss (higher than G50), you can apply a topcoat of a suitable spray-on coating (e.g. Aduro Pigmotop G70 (2514000170), Aduro Legnopur G70 (2513000170) or Aduro Legnopur G90 (2513000190)) after allowing the surface to dry (at room temperature) for at least 3 and at the most 8 hours, without the need for intermediate sanding.
- Any change in the processing sequence, environmental conditions, non-observance of instructions or the use of products not listed may have an unfavourable effect on the result.
- Please follow our **ARL 131 - Working guidelines for PUR furniture paints.**

Blending ratio



8419 10% **8418** 10%

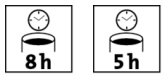
10 part(s) by weight or by volume Aduro Pigmocolor 4in1 G50 (2245)
1 part(s) by weight or by volume PUR-Hardener 8419 (8419000210)

If **faster drying** is required, the following hardener / mixing ratio can be used as an alternative to PUR-Hardener 8419 (8419000210):

10 part(s) by weight or by volume Aduro Pigmocolor 4in1 G50 (2245)
1 part(s) by weight or by volume PUR-Hardener 8418 (8418000210)

Aduro Pigmocolor 4in1 G50 (2245) can only be used with a hardener and in the mixing ratio specified. Deviations lead to film and adhesion problems.

Pot life



8419 **8418**

With PUR-Hardener 8419 (8419000210): 8 hour(s)

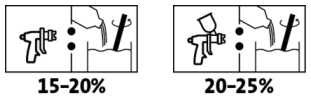
With PUR-Hardener 8418 (8418000210): 5 hour(s)

Increased temperatures reduce the pot life.

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

Please only prepare as much material as can be used within the pot life.

Application technique



15–20% **20–25%**

	Airless	Airless air-supported (Airmix®, Aircoat, etc.)	Cup gun
Spraying nozzle Ø (mm)	0,28 - 0,33		1,8 - 2,0
Spraying pressure (bar)	100 - 120		2 - 3
Vaporizer Air (bar)	-	1 - 2	-
Diluent	DD-Verdünner 8519 oder PUR-Verdünner 8529		
Diluent amount added (%)	15 - 20		20 - 25
Viscosity 4-mm-cup (s)	23 - 25		18 - 20

Applied quantity per application (g/m²)	120 - 200
Total quantity applied (g/m²)	max. 750

The shape and surface condition of the workpiece as well as the type of application influence the actual consumption. Accurate values for consumption must be obtained by applying trial coats in advance.

Drying times
(at 23 °C and 50 % rel. humidity)

Sandable and recoatable	5 hour(s)
Manipulable and stackable	16 hour(s)

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

The figures given above are reference values. Drying depends on the substrate, layer thickness, temperature, air exchange, relative humidity, stacking pressure and stacking conditions.

Cleaning the working equipment

With DD-Verdünner 8519 (8519) or Waschverdünner 8501 (8501) immediately after use.

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.

Substrate preparation

Carrier plates coated with priming film: Film sanding Grit size 240

MDF panels: Cleaning/smoothing sanding grit size 180 - 220

On good quality MDF boards with a high raw density (e.g. with 19 mm boards greater than 700 kg/m³), Aduro Pigmocolor 4in1 G50 (2245) can be used directly without pre-priming. Boards of a lesser quality will need to be pre-insulated before the first coat of primer (e.g. with Aduro Legnopur (2513)).

For sanitary applications, we generally recommend the use of moisture-resistant MDF boards of type V100 with pre-priming. It is not recommended for use on horizontal surfaces that are frequently exposed to water, such as washstands.

COATING SYSTEM

Primer coat

1 – 3 x Aduro Pigmocolor 4in1 G50 (2245) depending on the desired substrate and body

Intermediate sanding

Grit size 280 – 320

Intermediate sanding must be carried out immediately before the subsequent coating is applied in order to ensure good intermediate adhesion!

Avoid sanding straight through!

Remove sanding dust.

PACHE sarl

Topcoat	1 x Aduro Pigmocolor 4in1 G50 (2245)

CLEANING AND MAINTENANCE

Cleaning and Maintenance	Cleaning with Clean-Möbelreiniger (7202) and care with Clean-Möbelpflege Plus (7222).

ORDERING INFORMATION

Size of trading unit	Farbtöne: 1 kg, 4 kg, 20 kg Basislacke: 1 kg, 3 kg, 10 kg More sizes on request.
Colour shades / Glosslevels	**Standard colour(s):** W10 Weiß, tönbar (2245000010) RAL9010 Reinweiß (2245009010) RAL9016 Verkehrsweiß (2245009016) Further colours can be mixed using the **ADLER colour mixing system ADLER PUR-Mix**. Please observe our **ARL 800- Working guideline for working (including care and maintenance) with ADLER Mix, PUR Mix and Color4You dosing machines.** The product is available in the following gloss levels: Aduro Pigmocolor 4in1 G10 (2241) Aduro Pigmocolor 4in1 G30 (2243) Aduro Pigmocolor 4in1 G50 (2245)
Supplementary products	Aduro Legnopur (2513) Clean-Möbelpflege Plus (7222) Clean-Möbelreiniger (7202) DD-Verdünner 8519 (8519) Aduro Pigmotop (2514) PUR-Hardener 8418 (8418) PUR-Hardener 8419 (8419) PUR-Verdünner 8529 (8529) Waschverdünner 8501 (8501) Please refer to the corresponding technical data sheets of the products.

FURTHER DETAILS

Durability / storage	Min. 1 year(s) in the original sealed containers. Make sure the product is protected against moisture, direct sunlight, frost and high temperatures (above 30 °C). Close opened containers well and use up the content as soon as possible.
Technical specifications	Delivery viscosity: 55 – 65 seconds according to DIN 53211 (4 mm measuring cup, 20 °C)
Safety information	The product is only suitable for the industrial and professional use. The inhalation of paint aerosols during spray application must generally be avoided. This is ensured by the proper use of a respirator (combination filter A2/P2). 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.**