

ADLER Aqua-PU PRO

41231 ff

Water-based, pigmented coating system for professional use

PRODUCT DESCRIPTION

General

Water-based, non-yellowing, pigmented coating system for internal and external use. Excellent weather and UV resistance, high scratch resistance, high blocking resistance and high chemical resistance. The odorless and environmentally-friendly product is excellent in processing and flow.

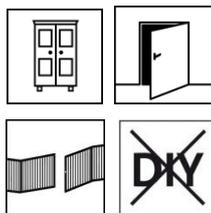
In the interior the product can be used optionally as one-component or two-component system, depending on stress. When used as a bi-component varnish excellent chemical and mechanical resistance as well as cream and grease resistance (CFB) can be reached. In outdoor areas ADLER Aqua-PU PRO must be used only as a two-component system.

Special properties and standards



- **ÖNORM EN 71-3** Safety of toys; Migration of certain elements (free of heavy metals)
- **ÖNORM S 1555 or DIN 53160** Perspiration and saliva-proof properties
- **French Ordinance DEVL1104875A** regarding the marking of construction coating products with respect to their emission of volatile pollutants: A+

Application area



- Efficient coating on wood, metal, hard PVC as well as stable old coatings for internal and external use.
- For dimensionally non-stable exterior wood construction elements we recommend Pullex Color 50530 ff or Pullex Aqua-Color 53331 ff.
- For tin roofs as well as steel constructions exposed to extreme weathering we recommend ADLER Ferro GSX 54120 ff.
- Horizontal flashing in the exterior must be treated with ADLER Ferrocolor 54111 ff or ADLER Ferro GSX 54120 ff.
- Please observe the respective technical data sheets of the products.

PROCESSING

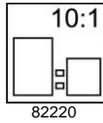
Instructions for use



- Please stir the product before use.
- The temperature of the product and object, and the room temperature must be at least + 10 °C.
- The optimal conditions for processing or use are between 15 – 25 °C at relative atmospheric humidity of 40 - 80 %.
- In the interior ADLER Aqua-PU PRO 41231 ff can be used optionally as one-component or two-component system.
- In outdoor areas ADLER Aqua-PU PRO must be used only as a two-component system.

- The flow of resin cannot be avoided based on the coating method.
- Please make sure to use only sealing profiles and masking tapes compatible with water-based varnishes.
- An acrylic brush is recommended for brush application. Rolling is done using a short bristles roller.

Blending ratio

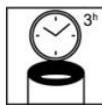


10 parts by weight of ADLER Aqua-PU PRO 41231 ff
1 part by weight of ADLER Aqua-PUR-Härter 82220

Incorporate ADLER Aqua-PUR-Härter carefully by stirring without forming lumps.

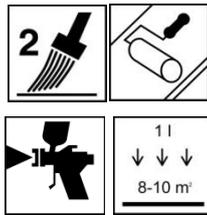
After adding the hardener, it is recommended to wait for about 10 min. for improved degasification.

Pot-Life



Approx. 3 hours

Application method



Application method	Brushing	Rolling	Cup gun
Spraying nozzle (ø mm)	-	-	1,8 - 2
Spraying pressure (bar)	-	-	3 - 4
Thinner	-	-	water
Thinner amount added in %			10 - 20
Yield per application (m ² /l) ¹⁾	approx. 8 - 10		approx. 8
¹⁾ Yield including addition of thinner and loss while spraying			

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 times

(at 20 °C room temperature)



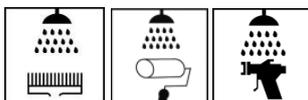
Recoatable	After approx. 6 hours
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The figures given above are reference values. The drying time depends on the substrate, coat thickness, temperature, air exchange and relative atmospheric humidity.

Lower temperatures and / or high level of atmospheric humidity can increase the drying time considerably.

Avoid direct sunlight (very quick drying).

Cleaning the working equipment



With water immediately after use.

To remove dried paint residues we recommend using ADLER Abbeizer Rote Krähe 95125.

SUBSTRATE	
Type of substrate	Wood, wood-based materials, metal, rigid PVC
Substrate property (or condition)	<p>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.</p> <p>Please observe ÖNORM B 2230 Part 1.</p> <p>See also VOB, Part C, DIN 18363, paragraph 3; Painting and coating work.</p> <p>Any coatings that cannot be recoated must be removed thoroughly.</p>
Wood moisture	<p>Hardwoods: 12 % +/- 2 %</p> <p>Softwoods: 15 % +/- 2 %.</p>
Preparation of the substrate	<p>Wood, wood-based materials Round off any sharp edges, remove wood extractives such as, for example, resins and resin pockets.</p> <p>Grain size for sanding the wood 120 – 150</p> <p>Iron and steel Remove rust down to bare metal. Thoroughly remove greasy or oily impurities using ADLER Entfetter (degreaser) 80394.</p> <p>Zinc, aluminium and other non-ferrous metals Matt sanding of the surface using grinding fleece and ADLER Entfetter (degreaser) 80394.</p> <p>Hard PVC and coatable plastics Sand the surface using grinding fleece and ADLER Entfetter (degreaser) 80394.</p> <p>Old coatings Sand with grain size 240. Remove old coatings that cannot be recoated.</p> <p>Please observe the relative technical data sheets of the products</p>
COATING SYSTEM	
Primer coat	<p>Wood and wood based materials 1x ADLER Aqua-Isoprimer PRO 41005</p> <p><i>Exterior:</i> Impregnate with 1 coat of Pullex Aqua-Imprägnierung (impregnation primer) 51320 (applicable to wood types of durability classes 3 – 5 according to EN 350-2, 3 – 5) to protect against blueing and fungal decay, and against insect infestation.</p> <p>Iron and steel <i>Interior:</i> Apply 1 coat of ADLER Aqua-Multiprimer PRO 41195 ff <i>Exterior:</i> Apply 2 coats of ADLER Aqua-Multiprimer PRO 41195 ff</p> <p>Zinc, aluminium and other non-ferrous metals Apply 1 coat of ADLER Aqua-Multiprimer PRO 41195 ff</p> <p>Accurate matt sanding of anodised aluminium and stainless steel and subsequent application of one primer coat using ADLER 2K-Epoxi-Grund 68304 within 60 minutes.</p> <p>Hard PVC and coatable plastics Apply 1 coat of ADLER Aqua-Multiprimer PRO 41195 ff An adhesion test is recommended due to several types of synthetic materials.</p>

Please observe the relative technical data sheets of the products.

Intermediate sanding

Sand the primer coated surface with grain size 240.
Remove the wood dust.

Intermediate coating

1x ADLER Aqua-PU PRO 41231 ff

Final coat

1x ADLER Aqua-PU PRO 41231 ff

MAINTENANCE & RENOVATION

Maintenance and renovation

The durability depends on several factors: These include particularly the type of weathering, constructional protection, mechanical stress and the choice of colour applied. To obtain long durability, preservation work is necessary in time. Therefore we recommend annual maintenance.

If required, remove dust and dirt from the still intact areas and apply 1 coat of ADLER Aqua-PU PRO 41231 ff using a brush.

Sand old coats with grit size 240 and clean the surface. Remove any old coats that cannot be recoated. Use the same coating system as for a new coat.

Please observe the relative technical data sheets of the products

ORDERING INFORMATION

Size of trading unit

750 ml; 2.5 l

Colour / degree of gloss

Verkehrsweiß/traffic white RAL 9016 SG (satin-gloss)	41230
Verkehrsweiß/traffic white RAL 9016 M (matt)	41240

Color4You

Other colour shades can be obtained using the **ADLER colour blending system Color4you**.

Base paints:

White W15 SG	41231	Base Yellow SG	41234
Base W20 SG	41232	Base Red SG	41235
Base W30 SG	41233		
White W15 M	41241	Base Yellow M	41244
Base W20 M	41242	Base Red M	41245
Base W30 M	41243		

- In order to ensure uniformity of the colour shade, use only material having the same batch number on a given surface.
 - It is recommended to prepare a trial colour sample on the original substrate using the coating system selected in order to assess the final colour shade.
 - Constrained by the system, lustrous and intensive colour shades might have, under certain circumstances, lower covering power. Hence, for these colour shades it is recommended to apply a preliminary coat of a comparable, opaque and pastel colour shade.
 - Please consume blended products within 3 months.
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Supplementary products

Pullex Aqua-Imprägnierung 51320 (Holz außen)
 Pullex Color 50530 ff
 Pullex Aqua-Color 53331 ff
 ADLER Ferro GSX 54120 ff
 ADLER Ferrocolor 54111 ff
 ADLER 2K-Epoxi-Grund 68304 (anodised aluminium and stainless steel)
 ADLER Aqua-Multiprimer PRO 41195 ff (metal)
 ADLER Aqua-Isoprimer PRO 41005 (wood)
 ADLER Abbeizer Rote Krähe 95125
 ADLER Entfetter 80394
 ADLER Aqua-PUR-Härter 82220

FURTHER DETAILS**Durability / storage**

At least 3 years in the original sealed containers.

Technical specifications

VOC content EU limit value for ADLER Aqua-PU PRO (Cat. A/d): 130 gm/l (2010). ADLER Aqua-PU PRO contains maximum 130 gm/l VOC.

Safety-relevant information

Please pay attention to the associated safety data sheet. The current version can be accessed on the Internet at **www.adler-lacke.com**.

The product is only suitable for 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 – EN 141/EN 143).