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Technical data sheet

ADLER
Paint runs through our veins.

ADLER Aqua-Rapid CFB 30451 ff

Water-based clear multi-coat finish for **furniture and interior finishing for industrial and professional use**

PRODUCT DESCRIPTION

General

Water-based clear varnish for wood surfaces, which can be optionally used as a one-component or, after adding a crosslinking agent, as a two-component system. Very good chemical and mechanical resistance; also as one-component varnish cream and grease resistant (CFB); good light-fastness; excellent transparency, high build and grain accentuation; excellent anti-sagging qualities on vertical surfaces. The product contains a special filter with very high sun protection against early yellowing or fading. Varnish-on-varnish application possible.

Special Properties Testing Standards

- **ÖNORM A 1605-12** (Furniture surfaces)
  Resistance to chemical reactions:
  For 1-comp. processing: 1-B
  For 2-comp. processing: 1-B1
  Response to abrasion: 2-D (≥ 50 U)
  Response to scratches:
  For 1-comp. processing:4-E (≥ 0,5 N)
  For 2-comp. processing: 4-D (≥ 1,0 N)
- **DIN 68861** (furniture surfaces)
  Part 1: Response to chemical stress: 1 B
  Part 2: Response to abrasion: 2 D (above 50 to 150 U)
  Part 4: Response to scratches:
  For 1-comp. processing: 4 E (> 0.5 to ≤ 1.0 N))
  For 2-comp. processing: 4 D (> 1.0 to ≤ 1.5 N)
- **ÖNORM A 3800-1** (Fire behaviour) in conjunction with a flame-retardant substrate:
  flame-retardant (formerly B1 in accordance with B 3800-1), Q1, Tr 1
- **DIN 4102-B1** (Highly non-combustible) in conjunction with flame-retardant laminated plywood – even veneered
- **EN 13501-1** (Fire behaviour) in conjunction with flame-retardant laminated plywood – even veneered: B-s2,d0
- NF P 92-501 (fire behaviour **in accordance to the French construction product regulation in conjunction with a flame retardant surface: M1**
- Highly non-combustible coating material for sea-going vessels (in accordance with **SOLAS 74/88 Chapter II-2**)

ADLER-Werk Lackfabrik MPA

General building inspection test certificate
P-BWU03-I-16.5.235, MPA Stuttgart

EC type test certificate 116.306
US Coast Guard approval certificate
164.112/EC0736/116.306

PACHE.com

ADLER-Werk Lackfabrik, A-6130 Schwaz
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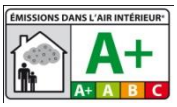
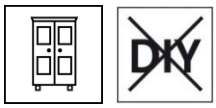
Our instructions for use are based on knowledge available currently and shall guide the purchaser / user to the best of one's knowledge, but, however, must be clarified for the areas of application and processing conditions on a case-to-case basis. The purchaser / user decides about the acceptance and use of the delivered product at his / her won 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.



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

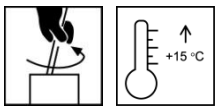
Areas of application



- For high build varnishing of furniture and interior fixtures including kitchen and bathroom surfaces (excluding worktops): with two-component applications (application areas II to IV according to ÖNORM A 1610-12) for example for kitchen, bathroom, school and hotel furniture, with one-component applications (application areas III to IV according to ÖNORM A 1610-12) for example for living and bed room furniture etc.
- Ideal for varnishing chairs and other frame furniture, where excellent cream and grease resistance is required.
- Very high application reliability even with complex workpiece shapes due its viscosity characteristics.
- In combination with ADLER Aqua-Fluid 80044 attractive, distinctive grain texture on open-pore woods. **Addition of 20 – 25 % to the varnish or to varnish/crosslinking agent mixture.**
- For highly non-flammable or flame-retardant structures.

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.
- ADLER Aqua-Rapid CFB 30451 ff can be uses by choosing one- or two-component processing.
- ADLER Aqua-Rapid CFB 30451 ff features excellent transparency and good grain accentuation of the wood substrate. If a stronger enhancement is required, apply a wood stain or tint the varnish with up to 1 % of the specially matching ADLER Aqua-Tint light 89251, medium 89252 or dark 89253 prior to varnishing.
- To prevent discoloration or markings (these can be evident in varying degree depending on the origin of the timber), we recommend priming with ADLER PUR-Primer 25291 when varnishing **oak, larch** and **other timbers rich in extractives.** As an alternative for hardwood ADLER Aqua-Intense GL 30016 can be used as a primer.
- Please follow the respective technical data sheets of the products.
- Please follow our „**Working guidelines for water-based furniture varnish**“.
- For coating of marine interior fitting apply 2 x 120 g/m².
- Regarding the coating of interior fittings on ships the flame-retardant surface material must not be used on pipes, pipe covers and cables.

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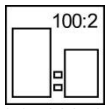
Blending ratio



2 % 82210

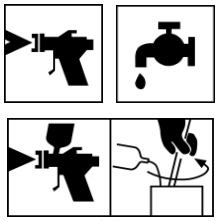
100 parts by weight of ADLER Aqua-Rapid CFB 30451 ff
2 parts by weight of ADLER Aqua-Vernetzer 82210

ADLER Aqua-Vernetzer 82210 must be carefully mixed with the painting component by stirring before use.

Pot Life

3 days; mixed material must be mixed 1:1 with freshly hardened material after 3 days; it is not possible to extend the pot life beyond this.

Application technique


10 %

Application method	Airless	Airless pressurized (Airmix, Aircoat etc.)	Cup gun
Spray nozzle (ø mm)	0.23 – 0.33	0.23 – 0.33	1.8 – 2.0
Spraying pressure (bar)	100 - 120	60 - 90	2.5 – 3.5
Spraying air (bar)	-	1 - 2	-
Dilution (thinning)	water		
Thinner amount added in %	-	-	approx. 10
Application quantity (gm/m²)	approx. 80 - 120 per application; Total application quantity (primer and top coat) max. 450		

Drying times

(at 23 °C and 50 % rel. humidity)

Can be sanded or recoated	after approx. 2 h

Low temperatures and / or high levels of atmospheric humidity can increase the drying time considerably.

To improve the firmness of the subsequent coating we recommend drying overnight at room temperature. Due to this the content of residual solvents in the paint film is kept low.

The figures indicated serve as a guide and are for reference. The drying time depends on the substrate, coat thickness, temperature, air exchange and relative atmospheric humidity.

Cleaning the tools and equipment

Clean with water immediately after use.

Eliminate rests of dry paint with ADLER Aqua-Cleaner 80080 (diluted 1:1 with water).

SUBSTRATE

Type of substrate

Hardwood and softwood (solid wood, veneered, laminated wood and (coated) wood fibre materials)

Substrate property (or condition)

The substrate must be dry, clean, stable, free of grease and wax and free from wood dust.

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Preparation of the substrate	**Hardwood:** sanding using grain size 150 – 180 **Softwood:** sanding using grain size 100 – 150 Use dust filter P3 while sanding or grinding.
	COATING SYSTEM
Primer coat	1 x ADLER Aqua-Rapid CFB 30451 ff
Intermediate sanding	Grain size 240 – 320 Use dust filter P2 while sanding or grinding. Avoid sanding straight through!
Topcoat	1 x ADLER Aqua-Rapid CFB 30451 ff
	CARE & REFURBISHMENT
	Clean with ADLER Clean Möbelreiniger 96490 and maintain with ADLER Clean Möbelpflege 96491. Please follow the respective technical data sheets of the products.
	NOTES ON ORDERING
Trading units	4 kg, 20 kg
Colour shades / Degree of gloss	G10 Deep matt 30451 G30 Matt 30453 G50 Semi-matt 30455 G70 Silk matt 30457 G90 Satin glossy 30459
Supplementary products	ADLER Aqua-Vernetzer 82210 ADLER Aqua-Fluid 80044 ADLER Aqua-Tint light 89251 (spruce, ash wood etc.) ADLER Aqua-Tint medium 89252 (beech, cherry wood etc.) ADLER Aqua-Tint dark 89253 (walnut, rosewood etc.) ADLER Aqua-Cleaner 80080 ADLER PUR-Primer 25291 ADLER Aqua-Intense GL 30016 ADLER Clean Möbelreiniger 96490 ADLER Clean Möbelpflege 96491
	OTHER INSTRUCTIONS
Storage stability / Storage	At least 12 months in the original sealed containers. Cool, but frost-free
Technical Specifications	Delivery viscosity: 150 ± 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).

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