

## Aquawood Finapro 20

5101

Water-based, matt **thick-film-glaze** for **wooden windows and front doors** for **industrial and professional use**

It has been matched as a system with a **3-coat structure**

### PRODUCT DESCRIPTION

#### General

Matt, water-based, breathable thick-film glaze, with very good weather resistance and high transparency. The product is characterised by high block resistance, very good impact strength, fast water resistance, short drying times, improved resistance to mechanical damage, natural appearance and good haptic properties.

#### Special properties and standards

- Proof of suitability according to **DIN EN 927-2 outdoor weathering**
- **ÖNORM EN 71-3** Safety of toys; migration of certain elements (free of heavy metals)
- **DIN 53160-1 and DIN 53160-2** perspiration and saliva-proof properties
- Registered in **baubook**



#### CATAS WKI Premium Award 16/20 / CATAS Quality Award 66/20

- EN 927-3 (natural weathering: S (EN 927-2) and according to par. 7.4.1
- EN 927-5 (water-vapour permeability): > 30 und < 175 g/m<sup>2</sup>
- UNI 11717.App.D (visible UV light transmission): 280 – 340 nm ≤ 1%; 280 – 440 nm ≤ 20%
- EN 927-10 (stacking strength): ≤ a2, d1
- CEN/TS 927-9 (wet adhesion): ≥ 0.5 MPa and individual values ≥ 0.3 MPa
- EN 12720 (resistance to water): ≥ 4
- EN 927-6 (artificial weathering): no defects, cross cut ≤ 1,0
- PTP 136 (biocidal effect): inhibited growth
- EN 927-11 (microbubbles): < 30 bubbles/cm

04-23 (supersedes 04-21) ZKL 5101

ADLER-Werk Lackfabrik, A-6130 Schwaz

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Our instructions are based on current knowledge and are intended to advise the purchaser/user to the best of our knowledge, but are to be individually adapted to areas of application and processing conditions. 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.

**2-coat-structure (only for Award-tests):** Aquawood Primo A3/A4/A5 (colour shades Dunkelbraun, Hellbraun, Kastanie, Kiefer, Afzelia, Haselnuss, Melone, light sanding grit size 280, afterwards 1x Aquawood Finapro 20 colour shades F001, F002, F003, F004; F005, F006, F007, F008, F009, F010, F011, F012, F013, F014; F015, F016, F017, film thickness of the top coat min. 250 µm (wet); corresponds to min. 80 µm (dry).



- **French ordinance DEVL1104875A** regarding the marking of construction coating products for their emission of volatile pollutants: A+

### Application area



- For dimensionally stable timber components for exterior and interior use, such as e.g. wooden windows and front doors.
- For humid areas (e.g. indoor pools) only with a special coating system.
- For non-dimensionally stable timber components we recommend thin-film systems such as Lignovit Lasur 5315 or Pullex Plus-Lasur 4415.

Please observe the relative technical data sheets of the products.

## PROCESSING

### Instructions for use



- Please stir the product before use. However, prevent entry of air while stirring.
- The temperature of the product and object, and the room temperature must be at least + 15 °C.
- The optimal conditions for use are between 15 – 25 °C with a relative atmospheric humidity between 40 – 80 %.
- Too high dry film thicknesses beyond around 120 µm reduce the diffusion capacity and should thus be avoided.
- Sealants must be compatible with the coat and may only be applied once the paint has dried through. Sealing profiles with plasticizers tend to stick together in combination with paints. Please only use those types that have been tested.
- Two applications of Aquawood Finapro 20 5101 are not recommended since this may have a polishing effect as a result of the content of matting wax and thus, worsen the intermediate adhesion.
- An intermediate coating with Aquawood Intermedio ISO 5705 is recommended to prevent air inclusions in deep-pored hardwood species and to avoid film interference on larch.
- When changing from Aquawood Finapro 20 5101 to other water-based paint systems, care must be taken to adequately clean the pipes and spray equipment, preferably with warm water.
- 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. Deviations lead to film and adhesion problems as well as to impairments with regard to weathering and color stability.

- Please follow our **ARL 300 - Working guideline for coating dimensionally stable and limited dimensionally stable construction elements - General part** along with all standards and guidelines for window construction.

**Application technique**



0-5% H<sub>2</sub>O



0-10% H<sub>2</sub>O

Application method	Airless	Airless air-supported (Airmix, Aircoat, etc.)	Cup gun
Spray nozzle (ø mm)	0.28 or 0.33	0.28 or 0.33	1.8 – 2.0
Spray nozzle (ø inch)	0.011 or 0.013	0.011 or 0.013	-
Spraying angle (degrees)	20 – 40	20 – 40	-
Spraying pressure (bar)	80 – 100	80 – 100	3 – 4
Atomized air (bar)	-	0.5 – 1.5	-
Spraying distance (cm)	approx. 25		
Thinner	water		
Thinner-added in %	0 – 5	0 – 5	0 – 10
Wet film (µm)	225 – 300		
Application quantity per application (g/m <sup>2</sup> ) <sup>1)</sup>	230 - 300		
Dry film complete coating system (µm)	80 - 120		

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)



Dust-dry (ISO 1517)	after approx. 1 hour
Tack-free	after approx. 2 hours
Stackable with PE fine foam spacers at room temperature:	after approx. 5 hours
Stackable with PE fine foam spacers after forced drying: 20 min flash-off zone 90 min drying stage (35– 40 °C) 20 min cooling stage	after approx. 130 minutes
Recoatable	after approx. 12 hours

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.

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

Avoid direct sunlight!

### Cleaning the working equipment



With water immediately after use.

To remove dried paint residues we recommend using Aqua-Cleaner 8004 (diluted 1:1 with water).

## SUBSTRATE

### Type of substrate

Wood in accordance with the guidelines for window construction.

### 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.

### Wood moisture

13 % +/- 2 %

## COATING SYSTEM

### General

The following coating systems are exemplary.

### Impregnation /Primer coat

1x Aquawood Primo A3 5453 – A6 5456

Intermediate drying time: approx. 4 hours

Use wood preservatives safely. Always read the label and observe the relative technical data sheets of the products before use.

### Intermediate coat

#### Softwoods:

1 x Aquawood Intermedio DQ 5706

#### Hardwood and Larch:

1 x Aquawood Intermedio ISO 5705

Intermediate drying time: approx. 2 hours

Please observe the relative technical data sheets of the products.

### Intermediate sanding



Grit size 220 – 280

Remove sanding dust.

### Finishing coat

1 x Aquawood Finapro 20 5101

### For front doors:

An additional application of Aquawood Protect 5128 is necessary (colourless two-component varnish).

Please observe the relative technical data sheets of the products.

## MAINTENANCE AND RENOVATION

### Maintenance and renovation

The durability of exterior wooden components depends on many factors: These are, in particular, the type of weathering, constructive protection, mechanical stress and the choice of the processed color shade; for long durability, regular inspection, maintenance and, if necessary, repair measures are required.

Cleaning with Clean-Möbelreiniger 7208. Maintenance with Top-Care 7227 in the package Window Care-Set 7229.

Please observe the relative technical data sheets of the products.

Please follow our **ARL 304 - Working guideline for coating dimensionally stable and limited dimensionally stable construction elements - Maintenance and renovation.**

## ORDERING INFORMATION

### Size of trading unit

5 kg, 25 kg, 120 kg poly drum

### Colour shades / degrees of gloss

F001	5101053601
F002	5101053602
F003	5101053603
F004	5101053604
F005	5101053605
F006	5101053606
F007	5101053607
F008	5101053608
F009	5101053609
F010	5101053610
F011	5101053611
F012	5101053612
F013	5101053613
F014	5101053614
F015	5101053615
F016	5101053616
F017	5101053617
White	5101061344

Other colour shades can be obtained using the **ADLER colour mixing system ADLERMix.**



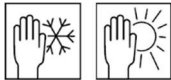
### Base paints:

Base W30 5101000030

- The final colour is basically obtained from the inherent colour of the wood, the applied quantity, the colour of the impregnation and the colour of the finishing coat.
- 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.
- In order to lay particular emphasis on the wood structure, the colour shade of Aquawood Primo A3 - A6 should be darker than the one of Aquawood Finapro 20.
- **Please observe our ARL 800 - Working guideline for working (including care and maintenance) with ADLER Mix, PUR Mix and Color4You dosing machines**

**Supplementary products**

Aquawood Primo A3 5453 – A6 5456  
 Aquawood Intermedio DQ 5706  
 Aquawood Intermedio ISO 5705  
 Aquawood Protect 5128  
 Aqua-Cleaner 8004  
 Top-Cleaner 7208  
 Top-Care 7227  
 Window Care-Set 7229  
 Pullex Plus-Lasur 4415  
 Lignovit Lasur 5315

**OTHER INSTRUCTIONS****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**

VOC-content EU threshold for Aquawood Covapro 20 (cat. A/e):  
 130 g/l (2010). Aquawood Finapro 20 contains a maximum of 20 g/l VOC.

**Safety-related information  
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](http://www.adler-lacke.com)**.

The product is only suitable for industrial and professional use.

While grinding use at least dust filter P2 as personal protective equipment to protect against sanding and wood dust. In case of hardwood (especially for Beech, Oak) a dust filter P3 is recommended.

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