

Aquawood Finapro RS 20

5186

Water-based, matt **thick-film-glaze** for **wooden windows and front doors** for **industrial and professional use** with paint recovery systems.
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. Particularly suitable for processing on spraying systems equipped with mechanical paint recovery systems. The product is characterized by a high level of block resistance, very good impact strength, quick resistance to water, short drying times, improved mechanical and chemical resistance, natural appearance and good feel of the surface.
The product is formulated without the addition of biocidal active agents to protect against blue stain and wood-destroying fungi.

Special properties and standards



- **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 area



- For dimensionally stable timber components for exterior and interior use, such as e.g. wooden windows and front doors, etc.
- 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. + 15 °C ist erforderlich.
- 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.

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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.

- 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.
- We do not recommend applying two layers of Aquawood Finapro RS 20 with intermediate sanding, because due to the content of a matting wax, a polishing effect and therefore a poor intermediate adhesion is possible. Finapro RS 20 wird nicht empfohlen, weil es durch den Gehalt an Mattierungswachs zu einem Poliereffekt und damit schlechter Zwischenhaftung kommen kann.
- An intermediate coating with Aquawood Intermedio ISO 5705 ff is recommended to prevent air inclusions in deep-pored hardwood species and to avoid film interference on larch. empfohlen.
- When changing from Aquawood Finapro RS 20 5186 to other water-based paint systems, care must be taken to adequately clean the pipes and spray equipment, preferably with warm water. Zwischenreinigung der Leitungen und Spritzgeräte geachtet werden, am besten mit warmem Wasser.
- 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% H₂O



10% H₂O

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 angel (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 amount added in %	0 – 5	0 – 5	10
Application quantity (g/m ²)	225 - 275		
Yield per application (g/m ²) ¹⁾	500		
Yield per application (g/rm) ¹⁾	250 – 300		
Wet film (µm)	225 – 275		
Dry film (µm)	80 up to max. 120		
¹⁾ Yield including addition of thinner and loss while spraying			

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)



Dust-dry (ISO 1517)	after approx. 1 hours
Tack-free	after approx. 2 hours
Stackable with PE fine foam spacers at room temperature:	after approx. 5 hour
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.

Trockenzeit verlängern.

Avoid direct sunlight (very quick drying).

Cleaning the working equipment



With water immediately after use.

To remove dried paint residues we recommend using Aqua-Cleaner 80080 (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

1x Aquawood Primo A3 5453 – A6 5456

Intermediate drying time 2 hours

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

Intermediate coat

Softwood:

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 - 240
Remove sanding dust.

Topcoat

1 x Aquawood Finapro RS 20 5186

Finishing coat

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 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.

Cleaning with Top-Cleaner 51696. Maintenance with Top-Care 7227 in the package ADLER 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

120-kg poly drum

Colour shades / degrees of gloss

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

Base paints:

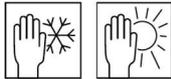
Farblos 59281



- 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 RS 20.

Supplementary products

Aquawood Primo A3 5453 – A6 5456
 Aquawood Intermedio DQ 5706
 Aquawood Intermedio ISO 5705
 Aquawood Protect 5128
 Aqua-Cleaner 80080
 Top-Cleaner 51696
 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 Finapro RS 20 (cat. A/e):
 130 g/l (2010). Aquawood Finapro RS 20 contains a
 maximum of 50 g/l VOC.

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 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).