

Aquawood DSL Holz-Alu

51985

Water-based **thick-film glaze** for **wood-aluminium windows** for **industrial and professional use**

PRODUCT DESCRIPTION

General

Water-based, breathable thick-film glaze based on acrylate dispersion. High transparency, good light fastness, high scratch resistance, high block resistance and high chemical resistance.

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 wood-aluminium components, such as e.g. windows and front doors, etc.
- Not suitable for direct outdoor exposure.

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.
- We do not recommend applying two layers of Aquawood DSL Farblos Holz-Alu with intermediate sanding, because due to the content of a matting wax, a polishing effect and therefore a poor intermediate adhesion is possible.

08-20 (supersedes 10-15) ZKL 5104

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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 modification of the container sizes, colour shades and degree of gloss.

- An intermediate coating with Aquawood Intermedio ISO 53613 ff is recommended to prevent air inclusions in deep-pored hardwood species and to avoid film interference on larch.
- When changing from Aquawood DSL Farblos Holz-Alu 51985 to other water-based paint systems, care must be taken to adequately clean the pipes and spray equipment, preferably with warm water.
- 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	0 – 10
Wet film (µm)	225 - 275		
Yield per application (g/m ²) ¹⁾	450 - 500		
Dry film complete coating system (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. 30 minutes
Tack-free	after approx. 3 hours
Stackable with PE fine foam spacers at room temperature:	after approx. 4 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
Dried through	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 (very quick drying).

Cleaning the working equipment



With water immediately after use.

To remove dried paint residues we recommend using ADLER 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

Dimensionally stable construction elements: 13 % +/- 2 %

COATING SYSTEM

General

The following coating systems are exemplary.

Impregnation

1x Aquawood Primo A1 5451000030 ff

Intermediate drying: 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

**Softwood:
Not necessary**

Hardwood and Larch:
1 x Aquawood Intermedio ISO 53613 ff
Intermediate drying: approx. 2 hours

Please observe the relative technical data sheets of the products.

Intermediate sanding

Grit size 220 - 240
Remove sanding dust.

Finishing coat

1 x Aquawood DSL Holz-Alu 51985

MAINTENANCE AND RENOVATION**Maintenance and renovation**

Cleaning with ADLER Top-Cleaner 51696.
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**

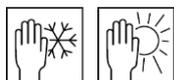
25 kg, 120-kg-poly drum

Colour shades / degrees of gloss

Farblos 51985

Supplementary products

Aquawood Primo A1 5451000030 ff
Aquawood Intermedio ISO 53613 ff
ADLER Aqua-Cleaner 80080
ADLER Top-Cleaner 51696

FURTHER DETAILS**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 limit value for Aquawood DSL Holz/Alu (cat. A/e): 130 g/l (2010). Aquawood DSL Holz/Alu contains a maximum of 40 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 the 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).