

Aquawood Ligno+ Top

59111

Water-based, highly transparent **topcoat** for wooden windows and front doors for industrial and professional use

It has been matched as a system with a **3-coat structure** using Aquawood Ligno+ Base and Aquawood Ligno+ Sealer.

PRODUCT DESCRIPTION

General

Water-based, highly transparent topcoat based on acrylate-/polyurethane dispersions. Very good weather resistance, high transparency, high blocking resistance, flood water resistance and very good impact resistance. Environmentally friendly, breathable, free of biocides.

Special properties and standards



- Verification of suitability according to **DIN EN 927-2** Outdoor exposure
- **ÖNORM EN 71-3** "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+

Application area



- Dimensionally stable timber components such as wooden windows, front doors or garage gates.
- Not suitable for humid areas (e.g. indoor swimming pool).

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.
- Optimal temperature while dip-coating or flow-coating is between 15 - 25°C with a relative atmospheric humidity between 40 - 80%.
- Very large dry film thicknesses beyond about 120 µm lower the diffusion capability and hence, should be avoided.
- Sealants must be such that they can be coated and should be applied only after through-drying of the paint. Weather strips containing softening agents or plasticizers tend to adhere in combination with paints. Please use only those types that have been tested in this connection.

10-14 (supersedes 08-14) ZKL 5123

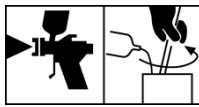
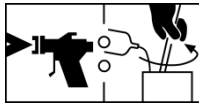
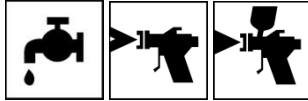
ADLER-Werk Lackfabrik, A-6130 Schwaz

Fon: 0043/5242/6922-301, Fax: 0043/5242/6922-309, Mail: technical-support@adler-lacke.com

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 own 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.

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

Application technique



Application method	Airless	Airless pressurized (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	-
Spray angle (degrees)	20 – 40	20 – 40	-
Spraying pressure (bar)	80 – 100	80 – 100	3 – 4
Spraying air (bar)	-	0,5 – 1,5	-
Spraying distance (cm)	Approx. 25		
Dilution (thinner)	Water		
Thinner amount added in %	0 – 5	0 – 5	10
Application quantity (g/m ²)	250 - 275		
Yield per application (g/m ²) ¹⁾	500		
Yield per application (g/linear metre) ¹⁾	250 - 300		
Nassfilm (µm)	250 - 275		
Dried film (µm)	80 – maximum 120		
¹⁾ Yield including addition of thinner and loss while spraying			

The shape and properties of the substrate and wood moisture 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)	approx. 30 min
Tack-free	approx. 3 h
Stackable with PE-foam spacers at room temperature	after approx. 5h
Stackable with PE-foam spacers after forced drying: 20 min flash-off zone 90 min drying phase (35 – 40 °C) 20 min cooling phase	after approx. 130 min
Complete dried	after approx. 12 h

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

Avoid direct sunlight (very quick drying).

Cleaning the working equipment



Clean with water immediately after use.

Remove flashed-off coat residues using ADLER Aqua-Cleaner 80080 or ADLER Abbeizer Rote Krähe (Red Crow) 95125.

SUBSTRATE

Type of substrate

Softwoods, oak and larch in accordance with the guidelines for window construction

Substrate property (or condition)

The substrate must be dry, clean, capable of holding the paint and free of grease, wax and wood dust.

Wood moisture

Dimensionally stable structures: 13 % +/- 2 %

COATING SYSTEM

Primer coat

1 x Aquawood Ligno+ Base 57960
4 hours drying time

Please observe the relative technical data sheets of the products.

Intermediate coat

1 x Aquawood Ligno+ Sealer 59110

Additional coat for oak, larch or, in general, for all kinds of softwoods rich in resin content:

1 x Aquawood Ligno+ Sealer SQ 59114
Wet-film thickness 100-125 µm

Sealing coat on all V-shaped joints using ADLER V-Fugensiegel transparent 55630

Please observe the relative technical data sheets of the products.

Intermediate sanding



Sanding grain size 220 – 240.

Remove the wood dust.

Topcoat

Softwood:

1 x Aquawood Ligno+ Top 59111
Wet-film thickness 250-275 µm

Lärche:

Aquawood Ligno+ Top, Lärche Natur 59141
Wet-film thickness 250 - 275 µm

Eiche:

1 x Aquawood Ligno+ Top, Eiche Natur 59106
Wet-film thickness 250-275 µm

Please observe the relative technical data sheets of the products.

MAINTENANCE & RENOVATION

Maintenance

The storage stability depends on several factors. These include particularly the type of weathering, constructive protection, mechanical stress and the choice of colour shades applied.

Preservation work must be carried out in time for a long period of storage stability. Annual maintenance is recommended for this purpose.

Windows: Cleaning with ADLER Top-Cleaner 51696 and preservation using ADLER Top-Finish 51697 in the ADLER Pflegeset-Plus 51695 preservative kit.

Front doors: Cleaning with ADLER Top-Cleaner 51696 and preservation using ADLER Door-Finish 51700 in the ADLER Haustürenpflegeset (front door preservative kit) 51709.

Please observe the relative technical data sheets of the products.

Renovation

Renovation with Pullex Aqua-DSL ff 51501 or, in case of greyed wood, with Pullex Renovier-Grund 50236 ff and Pullex Fenster-Lasur 50413.

Please observe the relative technical data sheets of the products.

ORDERING INFORMATION

Size of trading unit

5 kg; 25 kg and 90-kg-Poly drum

Colour / Degree of gloss

Natur	59111
Lärche Natur	59141
Eiche Natur	59106

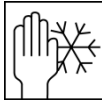
- **The final colour shade is basically obtained from the inherent colour of the wood, the colour shade of the impregnation and the colour shade of the glaze finish topcoat applied** (compare with the colour shade chart).
 - It is recommended to prepare a trial colour sample on the original substrate using the coating system selected in order to assess the final colour shade.
-

By-products

Aquawood Ligno+ Base 57960
 Aquawood Ligno+ Sealer SQ 59114
 Aquawood Ligno+ Sealer 59110
 ADLER V-Fugensiegel transparent 55630
 ADLER Top-Cleaner 51696
 ADLER Top-Finish 51697
 ADLER Pflegeset-Plus 51695
 ADLER Door-Finish 51700
 ADLER Haustürenpflegeset 51709
 Pullex Aqua-DSL 51501 ff
 Pullex Renovier-Grund 50236 ff
 Pullex Fenster-Lasur 50413
 ADLER Aqua-Cleaner 80080
 ADLER Abbeizer Rote Krähe 95125

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.

Technical specifications

VOC content EU limit for Aquawood Ligno+ Top (Cat. A/e):130 g/l (2010). Aquawood Ligno+ Top contains maximum 50 g/l VOC.

Safety-related 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).