

Aquawood DSL Carat

5108000030 ff

Water-based thick-film metallic wood 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

Thick-film water-based breathable wood glaze with very good weathering resistance and high transparency, which facilitates spectacular metallic shimmering colour effects by special pigmenting. The product is characterized by a high level of block resistance, very good impact strength, quick resistance to water and short drying times.

Special properties and standards



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

Application areas



- 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 53135 ff, Pullex Aqua-Plus 53101 ff or Pullex Plus-Lasur 50314 ff.
- Please observe the relative technical data sheets of the products.

PROCESSING

Instructions for use



- Please stir the product before use. Prevent air from entering while stirring, however.
- The temperature of the product and object, and the room temperature must be at least +15 °C.
- The optimal processing conditions are between 15 – 25 °C with a relative humidity of 40 – 80 %.
- Too high dry film thicknesses of the complete coating system 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. Weather strips containing plasticizers tend to adhere in combination with paints. Please only use those types that have been tested.

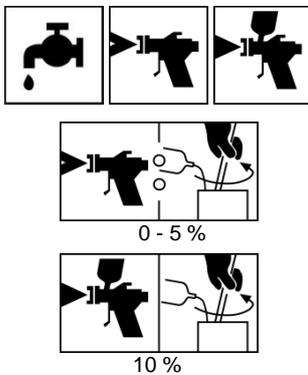
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Our instructions for use are based on knowledge available currently and shall guide the buyer/user to the best of one's knowledge, but, however, must be clarified for the areas of application and processing conditions on a case-to-case basis. The buyer/user takes responsibility for the suitability and use of the delivered product. It is therefore recommended to produce a sample specimen for testing 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.

- We do not recommend applying two layers of Aquawood DSL Carat 5108000030 ff with intermediate sanding, because due to the content of a matting wax, a polishing effect and therefore a poor intermediate adhesion is possible.
- An intermediate coating with Aquawood Intermedio ISO 53730 ff is recommended to prevent air inclusions in deep-pored hardwood species and to avoid film interference on larch.
- When changing from Aquawood DSL Carat 5108000030 ff 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 "**Working guideline for coating dimensionally stable and limited dimensionally stable construction elements**" along with all standards and guidelines for window construction.

Application technique

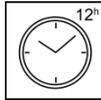


| Application method | Airless | Airless air-supported (Airmix, Aircoat, etc.) | Cup gun |
|---|-------------------|---|-----------|
| Spraying nozzle (ø mm) | 0.28 or 0.33 | 0.28 or 0.33 | 1.8 – 2.0 |
| Spraying nozzle (ø inch) | 0.011 or 0.013 | 0.011 or 0.013 | - |
| Spraying angel (degrees) | 20 – 40 | 20 – 40 | - |
| Spraying pressure (bar) | 80 – 100 | 80 – 100 | 3 – 4 |
| Atomized air (bar) | - | 0,5 – 1,5 | - |
| Spraying distance (cm) | approx. 25 | | |
| Dilution (thinning) | water | | |
| Thinner amount added in % | 0 – 5 | 0 – 5 | 10 |
| Wet film (µm) | 225 – 275 | | |
| Yield per application (g/m ²) ¹⁾ | 450 – 550 | | |
| 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. 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 phase (35 – 40°C) 20 min cooling phase | after approx. 130 min. |
| 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.

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 (or condition)

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 information

The following coating systems are exemplary.

Impregnation/Primer coat

1x Aquawood TIG HighRes 57628 ff or Aquawood TG 51051 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

1 x Aquawood Intermedio 53663 or Aquawood Intermedio ISO 53730 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.

Final coat

1x Aquawood DSL Carat 5108000030 ff

For front doors

Additional application of Aquawood Protect 53215 (colourless 2K varnish) required.

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.

Windows:

Cleaning with ADLER Top-Cleaner 51696.

Preservation with ADLER Top-Finish 51697 in the ADLER Pflegeset-Plus (preservation kit) 51695.

Front doors:

Cleaning with ADLER Top-Cleaner 51696.

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.

Please follow our "**Working guideline for coating dimensionally stable and limited dimensionally stable construction elements - Maintenance and Renovation.**"

ORDERING INFORMATION

Size of trading unit

5 kg; 20 kg

Color shades/degree of gloss

| | |
|-----------|------------|
| Achatgrau | 5108060235 |
| Altgrau | 5108060236 |
| Topasgrau | 5108060237 |



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

Base paints:

Base W30 5108000030

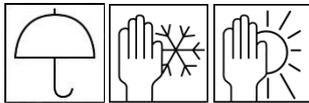
- The final colour shade is basically obtained from the inherent colour of the wood, the applied quantity, the colour shade of the impregnation and the colour shade of the finishing coat applied.
 - In order to ensure uniformity of the colour shade, use only material having the same batch number on a 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 particularly emphasise the wood texture, the colour selected for Aquawood TIG HighRes 57628 ff or Aquawood TG 51051 ff should be darker than that of Aquawood DSL Carat 5108000030.
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Supplementary products

Aquawood TIG HighRes 57628 ff
 Aquawood TG 51051 ff
 Aquawood Intermedio 53663
 Aquawood Intermedio ISO 53730
 Aquawood Protect 53215
 ADLER Aqua-Cleaner 80080
 ADLER Top-Cleaner 51696
 ADLER Top-Finish 51697
 ADLER Door-Finish 51700
 ADLER Pflegeset-Plus 51695
 ADLER Haustürenpflegeset 51709
 Lignovit Lasur 53135 ff
 Pullex Aqua-Plus 53101 ff
 Pullex Plus-Lasur 50314 ff

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 Carat (cat. A/e):
 130 g/l (2010). Aquawood DSL Carat 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 – EN 141/EN 143).