

Aquawood Diamond-Top D

5090000010 ff

Water-based, pigmented, opaque **2K finishing coating** for **premium wooden windows** for **industrial and professional use**

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

PRODUCT DESCRIPTION

General

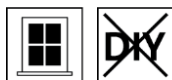
Water-based, matt, opaquely pigmented 2K top coat system with excellent weather and UV resistance as well as very good scratch and block resistance. The product is characterised by perfect water protection and very good permanent elasticity with simultaneous hardness, high chemical resistance and short 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



- High-quality wooden windows.

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 between 40 – 80 %.
- Do not close containers with hardened material.
- 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.
- When changing from Aquawood Diamond-Top D 5090000010 ff to other water-based paint systems, care must be taken to adequately clean the pipes and spray equipment, preferably with warm water.

- Finely structured surfaces can be achieved by adding the structure paste Aquafix S 91201. At the same time, the high mechanical resistance is further increased. Quantity to be added 8%.
- 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.
- Please observe the relative technical data sheets of the products.

Blending ratio



100 parts by weight and volume of Aquawood Diamond-Top D 5090000010 ff
5 parts by weight or vol. of ADLER PUR-Härter 82220

ADLER Diamond-Top D 5090000010 ff can only be used with a hardener and in the mixing ratio specified. Deviations lead to film and adhesion problems.

ADLER Aqua-PUR-Härter 82220 must be carefully worked into the paint components by stirring before processing. After addition of hardener, a waiting time of approx. 10 min is recommended for improved degassing.

Pot life

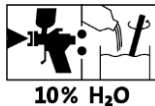
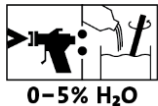


approx. 2 hours

A further extension of the pot life is not possible.

Increased temperatures reduce the pot life.

Application technique



Application method	Airless	Airless air-supported (Airmix, Aircoat, etc.)	Compressed air cup gun
Spray nozzle (ø mm)	0.28 – 0.33	0.28 – 0.33	2.2
Spray nozzle (ø inch)	0.011 – 0.013	0.011 – 0.013	
Spraying pressure (bar)	80 – 100	80 – 100	3 – 4
Atomized air (bar)	-	1 – 2	-
Spraying distance (cm)	approx. 25		
Thinner	water		
Thinner amount added in %	0-5		10
Wet film (µm)	approx. 200		
Yield per application (g/m) ²⁾¹⁾	approx. 300		
Dry film complete coating system (µm)	100 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 room temperature 20 °C)



Dust-dry (ISO 1517)	after approx. 30 minutes
Tack-free	after approx. 5 hours
Dried through	after approx. 12 hours

If necessary, a forced drying is also possible.

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 separative substances such as grease, wax, silicone, resin etc. and free from wood dust, and must be checked to see whether it is suitable of being coated.

Wood moisture

13 % +/- 2 %

Preparation of the substrate

Wood sanding grit size 120–150

COATING SYSTEM

Impregnation

1 x Aquawood TIG HighRes Weiß 543700101 or
1 x Aquawood Primo A2 Weiß 5452000305

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

**Primer/
Intermediate coat**

1 x Aquawood Diamond-Sealer D 5520050000

Please observe the relative technical data sheets of the products.

Intermediate sanding



Grit size 220 – 240

Remove sanding dust.

Finishing coat

1 x Aquawood Diamond-Top D 5090000010 ff

MAINTENANCE & 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 ADLER Top-Cleaner 51696.

Touching up minor flaws with the original material.

Please observe the relative technical data sheets of the products.

Please follow our ARL 304 “**Working guideline for coating non-dimensionally stable and limited dimensionally stable construction elements - Maintenance and Renovation**”.

ORDERING INFORMATION

Size of trading unit

20 kg

Colour shades / degrees of gloss



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

Base paints:

Base W10 5090000010

Base W30 5090000030

Anti-Heat equipment available.

- 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.

Supplementary products

ADLER Aqua-PUR-Härter 82220

ADLER Aqua-Cleaner 80080

ADLER Aquafix S 91201

Aquawood TIG HighRes Weiß 543700101

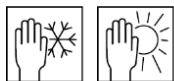
ADLER Top-Cleaner 51696

Aquawood Primo A2 Weiß 5452000305

Aquawood Diamond-Sealer D 5520050000

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 threshold for Aquawood Diamond-Top D (cat. A/d): 130 g/l (2010). Aquawood Diamond-Top D contains a maximum of 80 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).