

## Aquawood Covatec Plus 20

5050

Water-based, **matt, opaque finishing coat** for **wood/aluminium windows and wood/aluminium exterior doors**, for industrial use.

Optimised for a **2 or 3-layer coating system**

### PRODUCT DESCRIPTION

#### General

Water-based, matt, pigmented finishing coat. Stand-out features of this product include very good block resistance, very good impact strength, rapid establishment of water resistance, short drying times, improved resistance to mechanical damage, a natural look and a pleasant feel. Good non-sag properties on vertical surfaces and optimal flow. Particularly low number of micro-bubbles during airless spray application due to highly active defoaming agents/deaerators.

#### 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)



- **Declared in baubook**  
Product has been declared and validated



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

#### Application area



Dimensionally stable wood-aluminium components, such as e.g. windows and front doors.

For humid areas (e.g. indoor pools) only with a special coating system.

### PROCESSING

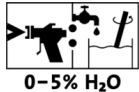
#### Processing instructions



- 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 from approx. 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.
- When changing from Aquawood Covatec Plus 20 (5050) to other water-based paint systems, care must be taken to adequately clean the pipes and spray equipment, preferably with warm water.
- Any change in the processing sequence, environmental conditions, non-observance of instructions or the use of products not listed may have an unfavourable effect on the result. Deviations lead to film and adhesion problems as well as to impairments with regard to weathering and color stability.
- 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% H<sub>2</sub>O

	Airless	Airless air-supported (Airmix®, Aircoat, etc.)
Spraying nozzle Ø (mm)	0,28 – 0,33	
Spray nozzle (Ø inch)	0,011 – 0,013	
Nozzle angle (°)	20 – 40	
Spraying pressure (bar)	80 – 100	
Vaporizer Air (bar)	-	0,5 – 1,5
Spraying distance (cm)	25	
Diluent	Water	
Diluent amount added (%)	0 – 5	
Applied quantity per application (g/m <sup>2</sup> )	220 - 370	
Wet film (µm)	175 - 300*	
Dry film complete coating system (µm)	100 - 120	

\*depending on the intermediate coat used

The product is ready to use.

The shape and surface condition of the workpiece as well as the type of application influence the actual consumption. Accurate values for consumption must be obtained by applying trial coats in advance.

**Drying times**  
(at 23 °C and 50 % rel. humidity)



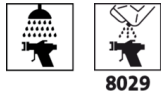
Dust-dry (ISO 1517)	ca. 1 hour(s)
Tack-free	ca. 3 hour(s)
Stackable with PE fine foam spacers at room temperature	ca. 5 hour(s)
Stackable with PE fine foam spacers after forced drying 20 minutes evaporation zone / dripping zone 90 minutes drying stage (35 – 40 °C) 20 minutes cooling stage	ca. 130 minutes
Recoatable	ca. 12 hour(s)

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!

**Cleaning the working equipment**



With water immediately after use.

To remove dried paint residues we recommend using Aqua-Cleaner (8029) (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**

1 x Aquawood Primo A2 (5452)

Intermediate drying time: approx. 4 hours

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

Please follow our **ARL 056 - Working guideline for the use of wood preservatives.**

Or alternatively, if no chemical wood protection is desired or has been agreed upon:

1 x Aquawood Primo TG WF (5462)

Intermediate drying time: approx. 4 hours

**Intermediate coat**

For softwoods, no intermediate coat is required.

**Hardwoods and Larch:**

1 x Aquawood Intercare ISO (5503)

or

1 x Aquawood Intercare SQ (5522)

or  
 1 x Aquawood Intercare ES (5501)  
 Wet film thickness: 150 - 200 µm  
 Intermediate drying time: approx. 4 hours

**Intermediate sanding**



Grit size 220 – 280  
 Remove sanding dust.

**Finishing coat**

1 x Aquawood Covatec Plus 20 (5050)  
**Softwoods:**  
 Wet film thickness: 275 - 300 µm  
**Hardwoods and Larch:**  
 Wet film thickness: 175 - 200 µm

**For front doors**

An additional application of Aquawood Protect (5128) (colourless two-component varnish) is necessary.

**MAINTENANCE**

**Care**

The durability depends on several factors: these include particularly the type of weathering, constructive protection, mechanical stress and the choice of colour applied. To obtain long durability, regular inspection, maintenance and, if necessary, repair measures are necessary .  
 Annual cleaning with Top-Cleaner (7208) and maintenance with Top-Care (7227) in the package with Windoor Care-Set (7229).

**Maintenance**

Please follow our **ARL 304 - Working guideline for coating dimensionally stable and limited dimensionally stable construction elements - Maintenance and repair.**

**ORDERING INFORMATION**

**Size of trading unit**

60 kg, 120 kg poly drum

**Colour shades / Glosslevels**

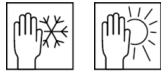
**Standard colour(s):**  
 RAL9010 Reinweiß (5050009010)  
 RAL9016 Verkehrsweiß (5050009016)  
 NCS S 0500-N (5050010001)  
 Other colour shades on request  
 In order to ensure uniformity of the colour shade, use only material with the same batch number on a given surface.  
 It is recommended to prepare a trial colour sample on the original substrate using the coating system selected in order to assess the final colour shade.

**Supplementary products**

Aqua-Cleaner 8029 (8029)  
 Aquawood Intercare ISO (5503)  
 Aquawood Intercare SQ (5522)  
 Aquawood Intercare ES (5501)  
 Aquawood Primo A2 (5452)  
 Aquawood Primo TG WF (5462)  
 Aquawood Protect (5128)  
 Top-Care (7227)  
 Top-Cleaner (7208)  
 Windoor Care-Set (7229)  
 Please refer to the corresponding technical data sheets of the products.

## FURTHER DETAILS

### Durability / storage



Min. 1 year(s) in the original sealed containers.

Make sure the product is protected against moisture, direct sunlight, frost and high temperatures (above 30 °C).

Close opened containers well and use up the content as soon as possible.

### Technical specifications

VOC content of the ready-to-use mixture: Limit value according to Directive 2004/42/EC for Aquawood Covatec Plus 20 (Cat A/d): 130 g/l.  
Aquawood Covatec Plus 20 contains a maximum of 40 g/l VOC.

### Giscode

BSW20

### DGNB (German Sustainable Building Council)

Quality level 4 (with factory coating)

### Safety information



The product is only suitable for the industrial and professional use.

When sanding, use at least a P2 dust filter as personal safety equipment to protect against abrasive and wood dust. In case of hardwood (especially for Beech, Oak) a dust filter P3 is recommended.

The inhalation of paint aerosols during spray application must generally be avoided. This is ensured by the proper use of a respirator (combination filter A2/P2).

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](http://www.adler-lacke.com).