

Aquawood Covatec Plus 20

5050

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

It has been matched as a system with a **2- respectively 3-coat structure**

PRODUCT DESCRIPTION

General

Water-based, matt, opaque finishing coat. The product is characterized by a high level of block resistance, very good impact strength, quick resistance to water, short drying times, improved resistance to mechanical damage, natural optics and good haptic properties. Good firmness on vertical surfaces combined with optimal flow. Particularly low number of micro-bubbles with airless spray application as a result of highly active de-foaming and de-aerating agents.

The product is formulated without the addition of biocidal active ingredients to protect against blue stain and wood-destroying fungi.

Special properties and standards



- **DIN 53160/1 bzw. DIN 53160/2** Perspiration and saliva proof properties
- **ÖNORM EN 71-3** Safety of toys; migration of certain elements (free of heavy metals)
- Meets the criteria of **baubook "Ecological invitation to tender"**
- **French ordinance DEVL1104875A** regarding the marking of construction coating products for their emission of volatile pollutants: A+

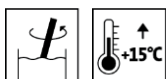
Application area



- For dimensionally stable wood-aluminium components, such as windows and house doors, etc.
- For humid areas (e.g. indoor pools) only with a special coating system.

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.

03-21 ZKL 5050

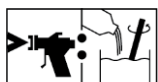
ADLER-Werk Lackfabrik, A-6130 Schwaz

Fon: 0043/5242/6922-190, Fax: 0043/5242/6922-309, Mail: technical-support@adler-lacke.com

Unsere Anleitungen basieren auf dem derzeitigen Wissensstand und sollen nach bestem Wissen den Käufer/Anwender beraten, sind jedoch auf Anwendungsgebiete und Verarbeitungsbedingungen individuell abzustimmen. Über Eignung und Einsatz des Lieferproduktes entscheidet der Käufer/Anwender eigenverantwortlich, weshalb empfohlen wird, ein Musterstück zur Überprüfung der Eignung des Produktes herzustellen. Im Übrigen gelten unsere Allgemeinen Verkaufsbedingungen. Alle früheren Merkblätter verlieren mit dieser Ausgabe ihre Gültigkeit. Änderungen der Gebindegrößen, Farbtöne und verfügbaren Glanzgrade vorbehalten.

- 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.
- 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		10
Wet film (µm)	1 x approx. 300 resp. 2 x 150 – 200		
Yield per application (g/m ²) ¹⁾	approx. 600 resp. 300 – 350		
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 23 °C and 50 % rel. humidity)



Dust-dry (ISO 1517)	after approx. 1 hour
Tack-free	after approx. 3 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 stage (35– 40 °C) 20 min. cooling phase	after approx. 130 min
Next coat can be applied after	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	13 % +/- 2 %

COATING SYSTEM

General	The following coating systems are exemplary.
Impregnation/Priming	1 x Aquawood Primo A2 5452 Use wood preservatives safely. Always read the label and observe the relative technical data sheets of the products before use. Alternatively, if chemical wood preservative is not desired: 1 x Aquawood TG WF Weiß 5419 Intermediate drying: approx 4 h

Intermediate coat	<p>Only required for larch and hardwoods:</p> <p>1 x Aquawood Intercare ISO 5503 or 1 x Aquawood Intercare SQ 5522 or 1 x ADLER Acryl-Fensterfüller HighRes 5501</p> <p>Intermediate drying: approx 4 h</p> <p>Please observe the relative technical data sheets of the products.</p>
--------------------------	---

<p>Intermediate sanding</p> 	<p>Grit size 220 – 280</p> <p>Remove sanding dust.</p>
--	--

Finishing coat	1 x Aquawood Covatec Plus 20 5050
-----------------------	-----------------------------------

For front doors	<p>An additional application of Aquawood Protect 53215 is necessary (colourless two-component varnish).</p> <p>Please observe the relative technical data sheets of the products.</p>
------------------------	---

MAINTENANCE AND RENOVATION

Maintenance and renovation	<p>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.</p> <p>Cleaning with ADLER Top-Cleaner 51696. Maintenance with ADLER Top-Care 7227000210.</p> <p>Please observe the relative technical data sheets of the products.</p> <p>Please follow our ARL 304 - Working guideline for coating dimensionally stable and limited dimensionally stable construction elements - Maintenance and Renovation.</p>
-----------------------------------	--

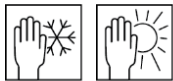
ORDERING INFORMATION

Size of trading unit	60 kg, 120-kg-Polybarrel
-----------------------------	--------------------------

Colour shades / degrees of gloss	RAL 9010	5050009010
	RAL 9016	5050009016
	NCS S 0500-N	5050010001
	Other colours on request.	
	<ul style="list-style-type: none"> • 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

Aquawood Primo A2 5452
Aquawood TG WF Weiß 5419
Aquawood Protect 53215
Aquawood Intercare ISO 5503
Aquawood Intercare SQ 5522
ADLER Acryl-Fensterfüller HighRes 5501
Aquawood Protect G30 53215 ff
ADLER Aqua-Cleaner 80080
ADLER Top-Cleaner 51696
ADLER Top-Care 7227
ADLER Windoor Care-Set 7229

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-Gehalt	EU threshold for Aquawood Covatec Plus 20 (cat. A/d): 130 g/l (2010). Aquawood Covatec Plus 20 contains a maximum of 40 g/l VOC.
------------	--

Sicherheitstechnische Angaben

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 breathing mask (combination filter A2/P2 – EN 141/EN 143).
