

Aquawood Diamond-Top L

5196

Transparent two-component coating system for **für premium wooden windows** for industrial and commercial use

System-matched in combination with Aquawood Diamond-Sealer L

	PRODUCT DESCRIPTION		
General	Water-based, matt, opaque two-component topcoat system with excellent weather and UV resistance, as well as very good scratch and block resistance. The product is characterized by perfect water protection and very good permanent elasticity with simultaneous hardness, high chemical resistance and short drying times.		
Special properties and standards	 Proof of suitability according to DIN EN 927-2 		
	• ÖNORM EN 71-3 Safety of toys; migration of certain elements (free of heavy metals)		
	• DIN 53160-1 and DIN 53160-2 Perspiration and saliva-proof properties		
cratic to cradie	 Cradle to Cradle Certified[®] Silver Cradle to Cradle Certified[®] is the global standard for products that are safe, circular and responsibly made. 		
	 French ordinance DEVL1104875A Marking of construction coating products for their emission of volatile pollutants: A+ 		
Application area	Premium wooden windows for exterior and interior use.		
	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. 		

1-0 IMC 5196 | 09/24 | replaces 0-2

ADLER-Werk Lackfabrik, A-6130 Schwaz

Fon: +43/5242/6922-190, Fax: +43/5242/6922-309, Mail: technical-support@adler-lacke.com

Our instructions are based on the current state of knowledge and are intended to advise the buyer/user to the best of our knowledge, but must be individually adapted to the areas of application and processing conditions. The buyer/user is responsible for deciding on the suitability and use of the supplied product, which is why we recommend that a sample be produced to check the suitability of the product. In all other respects, our General Terms and Conditions of Sale apply. All previous data sheets lose their validity with this edition. We reserve the right to make changes to container sizes, color shades and available gloss levels.

•	The optimal conditions for use are between 15 - 25 °C with a relative			
atmospheric humidity 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. 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 Diamond-Top L (5196) to other waterbased 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 Aquafix S (8110). At the same time, the high mechanical resistance is further increased. Add up to max. 8 %.
- Any change in the processing sequence, environmental conditions, nonobservance 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.

100 part(s) by weight or by volume Aquawood Diamond-Top L (5196) 5 part(s) by weight or by volume Aqua-Hardener 8450 (8450000210)

Aquawood Diamond-Top L (5196) can only be used with a hardener and in the mixing ratio specified. Deviations lead to film and adhesion problems.

Aqua-Hardener 8450 (8450000210) must be carefully worked into the product by stirring before processing. After addition of hardener, a waiting time of approx. 10 minutes is recommended for improved degassing.

2 hour(s)

A further extension of the pot life is not possible. Increased temperatures reduce the pot life.

	Airless	Airless air-supported (Airmix®, Aircoat, etc.)
Spraying nozzle Ø (mm)	0,28 - 0,33	
Spray nozzle (Ø inch)	0,011 - 0,013	
Spraying pressure (bar)	80 - 100	
Vaporizer Air (bar)	-	1 - 2
Spraying distance (cm)	25	
Diluent	Water	
Diluent amount added (%)	0 - 5	
Applied quantity per application (g/m²)	175 - 225	
Wet film (µm)	175 - 225	
Dry film complete coating system (μm)	80 - 100	

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

Blending ratio

100:5

8450 5%

Pot life

0-5% H₂O

Application technique

 $\begin{array}{c} 175-225 \\ \downarrow \downarrow \downarrow \downarrow \\ \underline{1m^2} \end{array}$

Dust-dry (ISO 1517)

approx. 30 minutes

12h	Dried through approx. 12 hour(s) 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.				
	the drying time.	Lower temperatures and/or high level of atmospheric humidity can increase the drying time.			
	Avoid direct sunlight!				
Cleaning the working	With water immediately after use.				
equipment	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 g	uidelines 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 a CrystalClear-Technology (CCT)	are exemplary. coatings must be applied exclusively in			
	accordance with ARL 318 - dimensionally stable componer	Working guideline for the coating of			
Impregnation	1 x Aquawood Primo A2 (5452) –	- Aquawood Primo (5453)			
Impregnation	Intermediate drying: approx. 4	hour(s)			
Impregnation	Intermediate drying: approx. 4	hour(s) y. Always read the label and observe the			
Impregnation	Intermediate drying: approx. 4 Use wood preservatives safel respective technical data sheets	hour(s) y. Always read the label and observe the			
Impregnation Primer/intermediate coat	Intermediate drying: approx. 4 Use wood preservatives safel respective technical data sheets Please follow our ARL 056 -	hour(s) y. Always read the label and observe the s of the products before use.			
	Intermediate drying: approx. 4 Use wood preservatives safel respective technical data sheets Please follow our ARL 056 - preservatives.	hour(s) y. Always read the label and observe the s of the products before use. • Working guideline for the use of wood			
	Intermediate drying: approx. 4 Use wood preservatives safel respective technical data sheets Please follow our ARL 056 - preservatives. Softwoods: 1 x Aquawood Diamond-Sealer Hardwoods and Larch:	hour(s) y. Always read the label and observe the s of the products before use. • Working guideline for the use of wood L (5723)			
	Intermediate drying: approx. 4 Use wood preservatives safel respective technical data sheets Please follow our ARL 056 - preservatives. Softwoods: 1 x Aquawood Diamond-Sealer	hour(s) y. Always read the label and observe the s of the products before use. • Working guideline for the use of wood L (5723)			
	Intermediate drying: approx. 4 Use wood preservatives safel respective technical data sheets Please follow our ARL 056 - preservatives. Softwoods: 1 x Aquawood Diamond-Sealer Hardwoods and Larch:	hour(s) y. Always read the label and observe the s of the products before use. • Working guideline for the use of wood L (5723)			
Primer/intermediate coat	Intermediate drying: approx. 4 Use wood preservatives safel respective technical data sheets Please follow our ARL 056 - preservatives. Softwoods: 1 x Aquawood Diamond-Sealer Hardwoods and Larch: 2 x Aquawood Diamond-Sealer	hour(s) y. Always read the label and observe the s of the products before use. • Working guideline for the use of wood L (5723)			

	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).
	Touching up minor flaws with the original material.
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	4 kg; 20 kg
Colour shades / Glosslevels	Standard colour(s): CCT (5196000250)
	Other colour shades can be obtained using the ADLER colour mixing system ADLERMix .
	Base paint(s): Aquawood Diamond-Top L Basis W40 (5196000040)
	The final colour is basically obtained from the inherent colour of the wood the applied quantity, the colour of the impregnation and the colour of the finishing coat.
	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.
	In order to lay particular emphasis on the wood structure, the colour shade of Aquawood Primo (5453) selected should be darker than the one of Aquawood Diamond-Top L (5196).
	Please observe our ARL 800 - Working guideline for working (including care and maintenance) with ADLER Mix, PUR Mix and Color4You dosing machines.
Supplementary products	Aqua-Hardener 8450 (8450) Aqua-Cleaner 8029 (8029) Aquawood Primo A2 (5452) Aquawood Primo (5453) Aquawood Primo A4 (5454) Aquawood Primo A5 (5455) Aquawood Primo A6 (5456) Aquawood Diamond-Sealer L (5723) Aquafix S (8110) Top-Cleaner (7208) Top-Care (7227) 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.
THE	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: EU limit for Aquawood Diamond- Top L (Cat A/d): 130 g/l. Aquawood Diamond-Top L contains maximum 50 g/l VOC.	
DGNB (German Sustainable Building Council)	Quality level 4 (with factory coating)	
Safety information	The product is only suitable for the industrial and professional use.	
i	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 .	