

ADLER Histo-Protect

5097

Solvent-based, **opaque wood varnish** for professional and industrial use

PRODUCT DESCRIPTION

General

Matt, opaque wood glazing based on natural, long oil and renewable raw materials with very good covering power. The product is characterised by very good weather resistance, diffusion openness and moisture regulation. Environmentally friendly due to higher solids content and aromatic-free white spirit as a solvent.

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)

Application area



For dimensionally stable timber components for exterior and interior use, such as e.g. wooden windows and front doors.

Renovation of old, historic wooden windows and front doors as well as iron parts (fittings) after appropriate priming.

PROCESSING

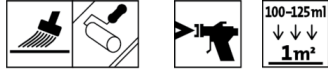
Processing instructions



- 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 + 5 °C.
- The optimal conditions for use are between 15 - 25 °C with a relative atmospheric humidity between 40 - 80 %.
- Resin flow cannot be avoided by the coating.
- Sealants must be compatible with the coat and may only be applied once the paint has dried through.
- 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



	Airless	Airless air-supported (Airmix®, Aircoat, etc.)	Brushing	Rolling
Spraying nozzle Ø (mm)		0,23	-	-
Spray nozzle (Ø inch)		0,09	-	-
Spraying pressure (bar)		100 - 120	-	-
Vaporizer Air (bar)	-	2 - 3	-	-
Spraying distance (cm)		25	-	-
Diluent		KH-Spritzverdünnung (8014)	Adlerol-Terpentinölersatz (8002)	
Diluent amount added (%)		0 - 10		
Applied quantity per application (ml/m²)		100 - 125		
Wet film (µm)		100 - 125		
Dry film complete coating system (µm)		80 - 140		

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)



Recoatable after	approx. 16 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.

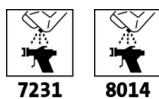
To ensure perfect drying, good room ventilation must be provided. Low ventilation, e.g. from dense stacking, delays drying.

On types of woods rich in extracts (such as oak, iroko), drying may be delayed.

For good thorough drying, the recommended application quantities must be adhered to. Excessive layer thicknesses lead to a considerable drying delay!

Lower temperatures and/or high level of atmospheric humidity can increase the drying time.

Cleaning the working equipment




With Adlerol-Terpentinölersatz (7231) or KH-Spritzverdünner (8014) immediately after use.

SUBSTRATE

Type of substrate

Wood in accordance with the guidelines for window construction. Iron and steel (fittings)

Substrate property	<p>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.</p> <p>A prerequisite for ensuring long durability of the coating is to observe the basic principles of constructional wood preservation.</p> <p>Remove old coatings that cannot be recoated.</p> <p>Please observe the additional documents:</p> <ul style="list-style-type: none"> • ÖNORM B 2230-1 • DIN 18363 • BFS data sheet no. 18.
Wood moisture	13 % ± 2 %
Wood sanding	<p>Hardwoods: Grit size 150 - 180</p> <p>Softwoods: Grit size 100 - 150</p>
Substrate preparation	<p>Wood</p> <p>Break sharp edges and remove any wood extractives such as resins and resin galls. Clean resin-rich woods and exotic woods with drying retardants with Nitro-Verdünner 8017 (8017).</p> <p>Iron and steel (fittings)</p> <p>Remove rust down to bare metal. Thoroughly remove greasy or oily impurities using Entfetter (7233).</p> <p>Please refer to the corresponding technical data sheets of the products.</p>
COATING SYSTEM	
General	The following coating systems are exemplary.
Impregnation	<p>If necessary, impregnate outdoors once with Pullex Imprägnier-Grund (4436) (applies to timbers of durability class 3-5 according to EN 350) to protect against blue stain, fungal decay and insect infestation.</p> <p>Intermediate drying time: approx. 12 hours</p> <p>Use wood preservatives safely. Always read the label and observe the respective technical data sheets of the products before use.</p> <p>Please follow our ARL 056 - Working guideline for the use of wood preservatives.</p>
Primer coat	<p>1 x ADLER Histo-Base (5497)</p> <p>Please refer to the corresponding technical data sheets of the products.</p> <p>Intermediate drying: approx. 6 hour(s)</p>
Intermediate sanding 	<p>Grit size 240</p> <p>Remove sanding dust.</p>
Finishing coat	1 x ADLER Histo-Protect (5097)

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.

If required, remove dust and dirt from the still intact areas and paint 1 - 2 x with ADLER Histo-Protect (5097) in the required colour shade.

On deep-pored hardwoods, e.g. Oak, Iroko, shorter maintenance intervals must be expected.

Please follow our **ARL 504 - Working guideline for coating non-dimensionally stable and limited dimensionally stable construction elements – Maintenance and Renovation** and our **ARL 304 - Working guideline for coating dimensionally stable and limited dimensionally stable construction elements - Maintenance and Renovation**.

ORDERING INFORMATION

Size of trading unit

2.5l; 20 l

Colour shades / Glosslevels

Color4You

Standard colour(s):

RAL9016 Verkehrsweiß (5097009016)

RAL9010 Reinweiß (5097009010)

Other colour shades can be obtained using the **ADLER colour mixing system Color4You**.

Base paint(s):

ADLER Histo-Protect Basis W15 (5097000015)

ADLER Histo-Protect Basis W30 (5097000030)

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.

White and shades derived from white tend to change the colour tone in artificial lighting. This appearance typical of synthetic resin paints can be reinforced by dark storage and ammonia-containing air.

Please consume blended products within 3 months.

Please observe our **ARL 800- Working guideline for working (including care and maintenance) with ADLER Mix, PUR Mix and Color4You dosing machines**.

Supplementary products

ADLER Histo-Base (5497)

Adlerol-Terpentinölersatz (8002)

Entfetter (8009)

KH-Spritzverdünner 8014 (8014)

Nitro-Verdünner 8017 (8017)

Pullex Imprägnier-Grund (4436)

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: EU limit for ADLER Histo-Protect (Cat A/e): 400 g/l.

ADLER Histo-Protect contains maximum 360 g/l VOC.

GiscodeBSL10

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).

When using cloths that have been soaked with oxidative drying products, there is a risk of spontaneous combustion! Spread soaked cloths out and let them dry; it is necessary to store them in sealed metal containers or under water.

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.
