

Lignovit GLT Plus

5381

Medium-film wood glaze, free of active agents, to provide **temporary protection in engineered timber construction**, for use in industry and trade

PRODUCT DESCRIPTION

General

Water-based, silky matt medium-film wood glaze, free of active agents, to provide temporary protection during the exposure phase of engineered timber construction and for decorative use in interior and exterior spaces. Stand-out features of this product include outstanding protection against water and weathering, ease of cleaning if the surface becomes soiled, fast drying, very good block resistance, good filling performance and a wide range of possible uses. Lignovit GLT Plus UV 100 also contains highly effective light stabilisers to absorb UV radiation and stabilise the lignin in the wood. This results in significantly longer stabilisation of the natural appearance of softwoods than can be achieved with traditional colourless glazes.

Special properties and standards



- Does not contain any active substances of chemical wood- and film preservatives.
- **ADLER green product**
ADLER green products are objectively tested and certified according to three categories: Environment, Health & Safety, and Durability. Only products that score positively in all these areas are awarded the green sustainability label.
- **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
- **French ordinance DEVL1104875A**
Marking of construction coating products for their emission of volatile pollutants: A+

Application area



Temporary protection in timber construction of e.g. glued laminated timber (glulam), cross laminated timber (CLT) and multilayer panels during the transport and construction phase.

Interior timber components made of softwood, such as wall and ceiling elements.

For non-dimensionally stable and limited dimensionally stable timber components for exterior use, such as e.g. wooden houses, timber cladding, canopies, profile boards, window shutters, balconies, gates.

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 +10 C.
- The optimal conditions for use are between 15 - 25 °C with a relative atmospheric humidity between 40 - 80 %.
- Do not process it under conditions of intense sunlight, rain, extremely high humidity, strong wind or pending frost.
- Early exposure to water from rain or dew must be prevented!
- **Attention:** Care should be taken to sand the wood uniformly and to apply the product evenly!
- We recommend applying two coats of product to achieve the most even colour possible.
- For new timber components we recommend an all-over coating.
- Resin flow cannot be avoided by the coating.
- Residual plaster (high level of alkalinity) or ferrous dust (rust formation) may lead to black discoloration on larch wood and other types of wood rich in extracts.
- The color shade, compatibility and adhesion to the substrate must be checked by creating sample panels.
- Ensure good ventilation during application and drying.
- 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 500 - Working guideline for coating non-dimensionally stable and limited dimensionally stable construction elements – General part.**

Application technique



	Airless	Airless air-supported (Airmix®, Aircoat, etc.)	Brushing	Rolling	Vacuum coater
Spraying nozzle Ø (mm)	0,23 - 0,28		-		
Spray nozzle (Ø inch)	0,09 - 0,11		-		
Nozzle angle (°)	20 - 40		-		
Spraying pressure (bar)	80 - 100		-		
Vaporizer Air (bar)	-	0,5 - 1,5	-		
Spraying distance (cm)	25		-		
Applied quantity per application (g/m²)	100 - 120		60 - 100		100 - 120

Total quantity applied (g/m²)	100 - 120	
Wet film (µm)	100 - 120	-

The product is ready to use.

An additional 40 % material consumption is to be expected on rough sawn timber.

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)	approx. 30 minute
Sandable and recoatable	approx. 3 - 4 h
Dried through	approx. 12 hour(s)

If required, forced drying for 15 - 30 minutes in a flat channel dryer, rising to a maximum temperature of 50 °C, 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!

Cleaning the working equipment



8029

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

Softwoods

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.

A prerequisite for ensuring long durability of the coating is to observe the basic principles of constructional wood preservation.

Wood moisture

15 % ± 2 %

Substrate preparation

For optimal durability we recommend to sand smooth wooden surfaces with grain size 80 – 120 in the direction of the fibre, clean thoroughly and remove wood extractives such as, for example, resins and resin pockets. Round off any sharp edges.

Clean resinous timbers containing drying retardant components with Nitro-Verdünner 8017 (8017).

Treat algae, green deposits or mould in outdoor areas with Aviva Fungisan (8308).

COATING SYSTEM

Impregnation

If necessary outdoors, apply 1 coat of Lignovit Primo (5358) (applies to timbers of durability class 3-5 according to EN 350) to protect against blue stain, fungal decay and insect infestation.

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**.

Finishing coat

1 – 2 x Lignovit GLT Plus (5381)

ORDERING INFORMATION

Size of trading unit

22l, 600 l Container

Colour shades



Standard products:

Lignovit GLT Plus Farblos, tönbar (5381000220)

Lignovit GLT Plus UV 100 (5381000240)

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

Base paint(s):

Lignovit GLT Plus Farblos, tönbar (5381000220)

The final colour tone is generally determined by the inherent colour of the wood, the quantity applied and the colour shade of the coating.

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 ensure uniformity of the colour shade, use only material with the same batch number on a given surface.

Apply exclusively pigmented colour shades to ensure a good weather resistance.

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

Aqua-Cleaner 8029 (8029)

Aviva Fungisan (8308)

Lignovit Primo (5358)

Nitro-Verdünner 8017 (8017)

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 Lignovit GLT Plus (Cat A/e): 130 g/l.

Lignovit GLT Plus contains a maximum of 40 g/l VOC.

Giscode

BSW20

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.

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**.
