

# Technical data sheet

## Lignovit Plus

5319

Water-based, thin-layer **wood varnish** for industrial and commercial use

### PRODUCT DESCRIPTION

#### General

Water-based, thin-coat, block-resistant wood stain for industrial and commercial use based on acrylate and alkyd resin dispersions for exterior use. The product is characterised by very good workability, good weather resistance and even degradation when exposed to weathering.

#### Special properties and standards

- The coating is protected against blue stain and mould by a biocidal active substance.

**Active substance:**

2.4 g/kg (0.24 %) 3-Iod-2-propinylbutylcarbamate

#### Application area



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.

We recommend Pullex Bodenöl (4402) for terrace floors and landing stages.

### PROCESSING

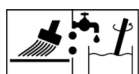
#### Processing instructions



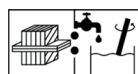
- Please stir the product before use. However, prevent entry of air while stirring.
- The temperature of the product and object, and the room temperature must be at least +10 C.
- The optimal conditions for use are between 15 - 25 °C with a relative atmospheric humidity between 40 - 80 %.
- Do not process 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!
- For new timber components we recommend an all-over coating.
- Due to the system, glazes are only limitedly step-resistant and therefore require more frequent maintenance.
- Resin flow cannot be avoided by the coating.
- Water-soluble wood extracts can be leached particularly by driving rain. This can be minimized by an all-over coating and additional sealing of the end grains.
- 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.
- Smooth, planed wooden surfaces are less absorbent and should be given a third coat if necessary.

- The color shade, compatibility and adhesion to the substrate must be checked by creating sample panels.
- 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



0-5% H<sub>2</sub>O



0-5% H<sub>2</sub>O

	Brushing	Vacuum coater
Diluent	Water	
Diluent amount added (%)	0 - 5	
Applied quantity per application (ml/m <sup>2</sup> )	80 - 100	90 - 120

The product is ready to use.

Increased consumption can be expected on rough sawn substrates.

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)



3-4h

Dust-dry (ISO 1517)	approx. 30 minutes
Sandable and recoatable	approx. 3 - 4 hour(s)
Dried through	approx. 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



8004

With water immediately after use.

To remove dried paint residues we recommend using Aqua-Cleaner (8004) (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

#### Wood, wood-based materials outside

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

### General

The following coating system is exemplary.

### 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**.

### Primer coat

1 x Lignovit Plus (5319)

### Intermediate sanding



If necessary: Slight smooth sanding: Grit size 220 – 280

Remove sanding dust.

### Finishing coat

1 x Lignovit Plus (5319)

## 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 x using Lignovit Plus (5319).

### Maintenance

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

## ORDERING INFORMATION

### Size of trading unit

4 l, 18 l

### Colour shades / Glosslevels



#### Base paint(s):

Lignovit Plus Basis W30 (53220)

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

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.

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.

When brightening the standard colour shades with Lignovit Plus colourless (5319), shorter renovation intervals must be expected (reduced UV protection).

Medium colour shades have the best weathering resistance; colours that are too light or too dark should be avoided if exposed to extreme weathering.

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

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### Supplementary products

Aqua-Cleaner (8004)  
Aviva Fungisan (8308)  
Lignovit Primo (5358)  
Nitro-Verdüner 8017 (8017)  
Pullex Bodenöl (4402)

Please refer to the corresponding technical data sheets of the products.

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## 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.

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### Technical specifications

VOC content of the ready-to-use mixture: EU limit for Lignovit Plus (Cat A/e): 130 g/l.  
Lignovit Plus contains maximum 60 g/lVOC.

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### Giscode

BSW50

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### 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.

Ensure good ventilation during application and drying.

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).