Technical data sheet

Lignovit Color VAC HF 5312

Water-based **wood coating**, available in both an **opaque** and a **transparent, pigmented** version, for use in **industry and trade**

PRODUCT DESCRIPTION

General

Water-based, medium-thickness wood coating available in both an opaque and a transparent, pigmented version, formulated with a high-quality acrylate dispersion. Stand-out features of this product include outstanding ease of use and very good block resistance and it is optimised for application by means of Vacumat. Especially well-suited to accelerated drying procedures.

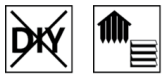
Special properties and standards

- The coating is protected against algae and fungal decay by a biocidal active substance.

  Active substance:
  2.4 g/kg (0.24 %) 3-Iod-2-propinylbutylcarbamat

- **French ordinance DEVL1104875A**
  Marking of construction coating products for their emission of volatile pollutants: A+

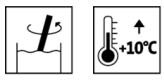
Application area



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.

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 %.
- Early exposure to water from rain or dew must be prevented!
- For new timber components we recommend an all-over coating.
- 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.
- The color shade, compatibility and adhesion to the substrate must be checked by creating sample panels.

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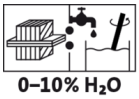
- Any change in the processing sequence, environmental conditions, non-observance of instructions or the use of products not listed may have an unfavourable effect on the result. Deviations lead to film and adhesion problems as well as to impairments with regard to weathering and color stability.
- Please follow our **ARL 500 - Working guideline for coating non-dimensionally stable and limited dimensionally stable construction elements – General part.**

Application technique



	Vacuum coater
Diluent	Water
Diluent amount added (%)	0 - 10
Applied quantity per application (ml/m²)	75 - 125
Applied quantity per application (g/m²)	80 - 120
Wet film (µm)	75 - 125

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)

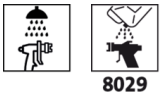
Dust-dry (ISO 1517)	approx. 30 minute
Sandable and recoatable	approx. 3 - 4 h
Dried through	approx. 12 hour(s)

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



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).

COATING SYSTEM

General

The following coating systems are 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

For colored shades:

1 x Lignovit Color VAC HF (5312)

White & pastel colours:

1 x Lignovit Sperrgrund (5322)

Transparent colours:

1 x Lignovit Color VAC HF (5312)

Intermediate sanding

Grit size 240 – 280

Remove sanding dust.

Finishing coat

1 x Lignovit Color VAC HF (5312)

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.

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

ADLER MIX

Base paint(s):
Lignovit Color VAC HF W10 Weiß, tönbar (5312000010)
Lignovit Color VAC HF Basis W30 (5312000030)

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

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.

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.**

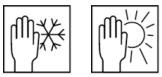
Supplementary products

Aqua-Cleaner 8029 (8029)
Nitro-Verdünner 8017 (8017)
Lignovit Primo (5358)
Lignovit Sperrgrund (5322)

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 Color VAC HF (Cat A/d): 130 g/l.
Lignovit Color VAC HF contains a maximum of 50 g/l VOC.

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.

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).

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.**