



Product category

Industrial products

Application

LIGNOPRO® 850 CLT-Varnish was developed to protect the non-visible surfaces (NVI) of cross laminated timber from dirt and weathering, as well as for sealing end grain surfaces. It protects cross laminated timber during the transportation and construction phase for at least 12 weeks. Thanks to its high moisture protection, diffusion-open surface and DIN tested slip and abrasion resistance, it is a unique alternative to conventional construction time sealants. LIGNOPRO® 850 CLT-Varnish protects against typical moisture damage that can occur during the construction phase due to standing water on storey ceilings and moisture penetrating through the end grain into the visible surfaces of wall and ceiling elements.

Properties

LIGNOPRO® 850 CLT-Varnish is a mid-coat varnish based on ultra-fine pure acrylate. The coating material has a mild odor, forms a film, is block-resistant and is easy to apply. A long open time enables an even surface, even on large-format sanded cross-laminated timber components. The product forms a colourless or transparent, glossy film with medium fullness through which the grain of the wood remains visible. The glaze regulates moisture by protecting the wood from penetrating water and at the same time leaving it open to diffusion. The surface created after just one coat protects the cross-laminated timber from soiling during the period of use of the building, which can be easily wiped off without penetrating the wood. Reduces the moisture absorption of the wood in the end grain area and serves to stabilize the dimensions.

Technical properties

Solvent	waterbased
Binder	Acrylates
Coating pattern	transparent, glossy
Gloss level	Angle 60° = approx. 50
Location	inside and outside
Protection from	Moisture and dirt, mechanical stress
Application method	Painting, rolling, spraying
Viscosity	ISO 5=46-56 s (ISO 2431)
Consumption	approx. 120-150 ml/m ² per coat
Drying (standard climate)	Touch dry after approx. 20-30 min, recoatable after approx. 1-2 h
* No UV protection for colorless or light shades	

Container sizes

20l; 600l; 1000l

Shades

KS0000 Colorless

(special colors possible after technical testing)

The purpose of this data sheet is to provide the user with non-binding advice on the properties of the above-mentioned product. The information contained herein has been determined in the laboratory and in practice as guide values and corresponds to the current state of the art, but does not release the consumer from the obligation to test the product for the intended use, also with regard to the color shade etc., under practical conditions before use. However, due to the variety of possible uses and processing, environmental influences and materials, liability and liability must be excluded. In cases of doubt, please contact our application technology department. Consultation with our technical advisors does not constitute a consulting relationship. This data sheet supersedes the previous one.



Preparation

Cover bituminous materials, plastics, plaster, concrete or stoneware due to possible soiling. The wood to be coated must be uncoated, clean and free of grease. We recommend pretreating with H120 Wood Protection Primer W if there is a risk of wood-destroying fungi and blue stain in outdoor areas. Please wear the protective equipment described in the safety data sheet. Stir the product thoroughly before use! Also stir occasionally during work!

Application conditions

Do not apply in direct sunlight, rain, fog or at temperatures below 5 °C. The wood may have a maximum moisture content of 15 %.

Application

We recommend the use of K&S velour brush pads or K&S brushes for manual application on large-format components. Brush in the direction of the grain and smooth out any excess. End grain surfaces are particularly absorbent and must be sufficiently treated with LIGNOPRO® 850 CLT-Varnish to protect against water absorption. For information on the spraying method or machine application, please contact our technical application advice.

Consumption

In order to achieve optimum protection, approx. 120-150 ml/m² for the first coat, depending on the absorbency of the substrate. If a second coat is applied, the consumption is approx. 50% of the first coat. Consumption may be higher on very rough or very dry substrates and on end grain surfaces.

Drying

Ensure adequate ventilation during drying. In a standard climate (20 °C, 50 % rel. humidity), touch dry after approx. 20-30 min., recoatable after approx. 1-2 h. Drying may be delayed in case of poor ventilation, deviation from the standard climate or increased layer thickness.

Recoatability

The product can be recoated with water-based medium or thick-layer glazes, but also with opaque systems. Oils or thin-layer glazes are not suitable for overcoating.

Cleaning tools

Wash out tools thoroughly with soap and water immediately after use or clean them according to the instructions of the tool manufacturer.

Storage

Store the product only in tightly closed original containers, dry and at temperatures between 5 °C and 30 °C. Use opened containers as quickly as possible. Please also observe the information in the safety data sheet.

Disposal

Only dispose empty containers for recycling. Dispose of cleaning residues and containers with residues at the collection point for old paints (waste code: 080112).



Tests and certificates

- Proof of conformity with the AgBB scheme 2021
- Environmental product declaration according to ISO 14025 and EN 15804 (EPD)
- Slip resistance class R10, tested according to DIN EN 16165:2023-02
- s_p -value: 0.56- 0.7 m with recommended application quantity of 120-150 ml/m²

Manufacturer's declaration of substance exclusions (according to DGNB, QNG, BNB requirements)

We hereby confirm that in the formulations and manufacture of our product LIGNOPRO® 850 CLT-Varnish:

- the VOC requirements of the Basic Award Criteria DE-UZ 12 a (Blue Angel) are fulfilled
- no substances on the candidate list of substances of very high concern (SVHC)
- no carcinogenic, mutagenic, reprotoxic CMR substances Cat. 1A, 1B and 2 according to VO-EG 1272/2008 and TRGS905 and Cat.1, 2 and 3 according to MAK list
- no acutely toxic substances Acut. Tox. 1, 2 and 3 according to VO-EG 1272/2008
- No biocides for chemical wood protection or film protection but exclusively in-can preservatives according to the specifications of the Basic Award Criteria DE-UZ 12 a (Blue Angel) with a total < 400 ppm (no biocidal product according to VO-EU 528/2012)
- no plasticizers from the group of phthalates and organophosphates
- no pigments and siccatives based on lead, cadmium and chromium VI compounds
- no alkylphenol ethoxylates
- no oximes
- no perfluorinated and polyfluorinated substances
- no reprotoxic boron compounds

constitutional components and are therefore not added by us.

Manufacturer

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