

Lignovit Terra-Color

5380

Water-based **opaque wood coating** based on **renewable raw materials** for professional and industrial use

PRODUCT DESCRIPTION

General

Ecological, opaque wood coating based on selected renewable raw materials for interior and exterior use. The product enables the creation of natural, matt surfaces with a pleasant feel, characterised by very good water resistance and long durability. The easy-to-apply product is formulated without the addition of plasticisers.

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
- **Declared in baubook**
Product has been declared and validated
- **Cradle to Cradle Certified® Silver**
Cradle to Cradle Certified® is the global standard for products that are safe, circular and responsibly made.
- **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.

For coating interior wall and ceiling elements.

Particularly suitable for apiaries.

PROCESSING

Processing instructions



- Please stir the product before use.
- 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.
- For new wooden components, we recommend priming on all sides.
- Early exposure to water from rain or dew must be prevented!
- Resin flow cannot be avoided by the coating application.
- 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.
- Smooth, planed wooden surfaces are less absorbent and should be given a third coat if necessary.
- 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	Vacuum coater
Spraying nozzle Ø (mm)	0,28		-	-
Spray nozzle (Ø inch)	0,011		-	-
Nozzle angle (°)	20 - 40		-	-
Spraying pressure (bar)	80 - 100		-	-
Vaporizer Air (bar)	-	0,5 - 1,5	-	-
Spraying distance (cm)	25		-	-
Diluent	-			Water
Diluent amount added (%)	-			5 - 10
Applied quantity per application (ml/m²)	80 - 100			

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.

Vacumat: Due to differences between Vacumat units, preliminary tests are essential

Vacumat with steam treatment recommended

Feed speed: 15 – 20 m/min

Pump pressure: 3.5 – 4.5 bar

Vacuum: 40 – 70 mbar

The distance between the workpiece and the die must be at least 2 mm and must not exceed 5 mm; a gap that is as small and uniform as possible should be maintained to ensure a homogeneous coating.

Note: The parameters must be matched within the system (viscosity – feed speed – vacuum – die).

If a higher feed speed or faster drying is required, we recommend using Lignovit Speed D (5375).

Drying times

(at 23 °C and 50 % rel. humidity)



Sandable	ca. 6 hour(s)
Recoatable	ca. 6 hour(s)
Dried through	ca. 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.

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 Clean 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.

Please observe the additional documents:

- ÖNORM B 2230-1
- DIN 18363
- BFS data sheet no. 18.

Wood moisture

15 % ± 2 %

Substrate preparation

Wood, wood-based materials inside

Break sharp edges and remove any wood extractives such as resins and resin galls.

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).

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.

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 Terra-Color (5380)

Intermediate drying time: approx. 6 hour(s)

Intermediate sanding



If necessary: Slight smooth sanding: Grit size 240 – 280

Remove sanding dust.

Finishing coat

1 x Lignovit Terra-Color (5380)

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 using Lignovit Terra-Color (5380).

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

4l, 22l

Colour shades / Glosslevels



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

Base paint(s):

Lignovit Terra-Color W10 Weiß, tönbar (5380000010)

Lignovit Terra-Color Basis W30 (5380000030)

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.

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

Supplementary products

Clean Aqua-Cleaner 8029 (8029)

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 Terra-Color (Cat A/d): 130 g/l.
Lignovit Terra-Color contains a maximum of 40 g/l VOC.

Giscode

BSW20

Declaration of ingredients according to VdL-RL 01

alkyd resins / water / inorganic white and coloured pigments / organic pigments / wetting agent / surface additive / glycol ether / rheology additives / interface additives / in-can preservation agents

DGNB (German Sustainable Building Council)

Quality level 4

Safety information



The product is only suitable for the industrial and professional use.

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 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.