



# Linseed Oil Varnish

Product information Article no. 409-413

23.10.2020

## ■ General information

The primary raw material for oil-based natural paints is linseed oil, which is obtained from the flax or linseed plant. The seeds of the flax plant are cold pressed under high pressure, giving an oil yield of up to 90%.

Linseed oil dries by absorbing oxygen from the air.

Wood treated with pure linseed oil takes several weeks to dry out, so to accelerate the drying process, drying agents are added to the linseed oil. This produces linseed oil varnish, which requires just 24-48 hours to dry at moderate temperatures.

## ■ Uses

Used in its pure form as solvent-free surface protection for low-impact indoor surfaces => traditionally oiled surfaces: furniture, doors, beams, cladding and much more.

Suitable for use as a primer for subsequent coats with:

- opaque Stand Oil Paints on all untreated wood
- pigmented Wood Lazure on highly absorbent or weathered wood

if diluted 1:1 with Balsamic Turpentine (article no. 447) dilute (=> **half oil**).

Suitable for creating oil paints according to your own recipes.

A light dilution with natural Balsamic Turpentine is recommended if applying to very dense, poorly-absorbent and tannin-rich wood. Can be tinted with Kreidezeit Pigments.

Linseed oil deeply penetrates into the tiniest of pores thanks to the small size of the molecules. This ensures subsequent oil paint coats stick well to the substrate.

## ■ Properties

- Dirt and water repellent
- Resin-free, solvent-free
- Oil paint sticks well to the substrate as a result
- Doesn't tear or become brittle
- Diffusible, antistatic and warm to touch
- Transparent, honey-toned and colour-deepening
- Excellent penetration
- Easy to work with and touch up
- Suitable for children's toys according to EN 71-3
- Saliva and sweat-resistant according to DIN 53160
- Cobalt, lead and barium-free
- Vegan

## ■ Composition (full declaration)

Linseed oil and manganese drier.

## ■ Suitable tools

- Paint brush / flat brush
- Short-pile roller (Magic felt, article no. 6517).
- Lint-free cloth, solvent-resistant synthetic sponges

## ■ Test surface

**It is recommended to test the product on an inconspicuous surface before extensive application in order to determine whether the substrate may change colour or react with the product.**

## ■ Substrate requirements

The substrate must be untreated, dust-free, clean, dry, non-greasy, chemically neutral and **absorbent**. The minimum temperature for application is 10°C. Wood moisture content < 15%. **Do not use on damp wood!**

## ■ Preparing the substrate / initial sanding

Remove any resin pockets and old synthetic resin-based coats. Sand down new or weathered wood (grit P80-100), rounding the edges. Do not use a finer sandpaper as this will make the wood too dense and unable to absorb enough oil. New, smooth, planed or finely pre-sanded wood should be rough sanded to ensure the oil can be absorbed. Dust down thoroughly after sanding.

## ■ Application

Shake product briefly before application.

Apply one or two coats of Kreidezeit Linseed Oil Varnish, allowing the first coat to dry before applying the second. The substrate may require sanding before applying the second coat. If using containers with different batch numbers, mix and stir together prior to application. The product must not be poured onto surfaces!

Clean and dust down untreated substrates.

To ensure good penetration, it is recommended to dilute the product with at least 20% Balsamic Turpentine (article no. 447) for the first coat on very dense, poorly-absorbent and tannin-rich wood (such as oak).

Please note:

wood in outdoor areas should be fitted with non-rusting metal screws and fittings, otherwise dark stains may appear after applying oil.

Processing and drying temperatures:

at least 10°C for a minimum of 48 hours.

### 1. First coat

Apply Kreidezeit Linseed Oil Varnish evenly with a brush, short-pile roller, cloth or sponge. After 10-20 minutes, **thoroughly wipe** the entire treated area with a dry, lint-free cloth until the surface has a uniform satin appearance.

**Ensure that all unabsorbed oil has been completely removed**, as otherwise shiny or sticky patches may remain. Kreidezeit Linseed Oil Varnish **must fully penetrate into the wood. It must not form a layer on the wood.**



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## 2. Re-sanding between coats (optional)

Re-sanding between coats is only required if the surface has dried rough, for example if wood fibres have dried proud of the surface. Use sand paper (grit P100-120) in the direction of the fibre.

Dust down thoroughly after sanding.

## 3. Second coat (optional)

A second coat is required if the product is applied indoors on its own or if subsequently using Stand Oil Paint on highly absorbent or weathered wood. Repeat as per the first coat.

## 4. Subsequent coats

For subsequent coats, please see the product information on Stand Oil Paint or Wood Lazure.

## 5. Wax treatment

Oiled surfaces generally do not require wax treatment. To improve the gloss, you can finish with Kreidezeit Carnauba Wax Emulsion (article no. 415) after at least 48 hours. To do this, dilute 1 part emulsion with 2 parts water. Apply evenly and thinly, allow to dry and polish as needed.

### ■ Tinting

The product can be tinted with any Kreidezeit Pigment. See our 'Pigments in Oil' colour chart for examples. Start by stirring the pigments into a small amount of the product until it forms a lump-free paste, and then stir into the main mixture. The pigments can be mixed freely with each other. Colour samples are available from our retailers. Alternatively, the product can be tinted in any ratio with Stand Oil Paint, half rich (article no. D1100-1115).

### ■ Dilution

The product can be diluted with Balsamic Turpentine (article no. 447).

### ■ Drying time

Dry and re-coatable at 20°C and 60% relative humidity after approx. 24 hours (48 hours for substrates containing tannin, e.g. oak, etc.).

High humidity, cold temperatures and substrates containing tannin significantly extend the drying time.

Hardened after approx. 4 weeks. Use the surface gently and protect from water during this time.

### ■ Maintenance

The surface must be re-oiled as soon as it becomes absorbent again, but no later than when grey spots start to appear. Absorption can be determined by wiping wet. If the surface becomes darker, re-oiling is required. To do this, apply the product again as described above. Very stubborn dirt can be removed beforehand with a scouring pad, abrasive cloth or sand paper (P100).

### ■ Cleaning, maintenance and handling

- Use surfaces very gently in the first 4 weeks and do not wipe wet.
- Dry-remove any dust with a soft cloth or vacuum with a soft furniture nozzle.
- **Never use hot water** to wipe; use lukewarm water only.
- **Wipe damp only.**
- Use a soft cotton cloth only.
- **Do not use microfibre cloths/pads** as these will remove the oil.
- **Remove liquid spillages immediately;** do not allow to dry.
- Maintain/restore shine using with Carnauba Wax Emulsion (article no. 415) in a mopping solution.
- Clean using Olive Care Soap (article no. 424) or Corfu Soap (article no. 226) only if needed; use sparingly.

### ■ Cleaning the tools

Clean immediately after use with Balsamic Turpentine (article no. 447) and then with Olive Care Soap (article no. 424) or Corfu Soap (article no. 226).

### ■ Application rate

Depending on the absorption of the substrate, approx. 0.05 to 0.10 litres per m<sup>2</sup> per coat. Exact consumption rate to be determined on the actual substrate.

### ■ Container sizes

	Content	Range
Art. 409	500 ml	10 m <sup>2</sup>
Art. 410	1 l	20 m <sup>2</sup>
Art. 411	2,5 l	50 m <sup>2</sup>
Art. 412	5 l	100 m <sup>2</sup>
Art. 413	10 l	200 m <sup>2</sup>

For prices, please refer to the valid price list.

### ■ Storage

The product will keep for at least 2 years if stored airtight and protected from frost.



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## ■ Disposing leftover product

Do not dispose of the product remains in wastewater, but keep hermetically sealed for later use. Dried product remains can be disposed of with household waste. Empty containers can be recycled.

Please adhere to current statutory regulations for disposing of paint and paint residues.

## ■ Notes

Due to the content of natural oils, a yellowing occurs on surfaces with low exposure to light. A typical odour is emitted when natural oils dry; this disappears with time. Failure to remove iron filings on the surface can cause discolouration when applying the product. Not recommended for use on inside surfaces of cupboards; these are best treated with Shellac Varnish (article no. 154), Carnauba Wax Emulsion (article no. 415) or Corfu Soap (article no. 226).

## ■ EU VOC Value acc. to 2004/42/EC

VOC limit / Max. VOC content (cat. A/f): 700 g/l (2010), Product contains max. 1 g/l VOC.

## ■ Hazard Classification

Not applicable, no hazardous materials.

## ■ Warning

Ensure that work materials that have been soaked with the product, such as cloths and sponges, sanding dust or polishing pads with undried oil, are securely stored sealed in metal containers or in water. Avoid any contact of the oil with porous insulation; otherwise, there is a risk of self-ignition due to the vegetable oil content. The product itself is not self-igniting. Do not pour the product onto surfaces. Please check for allergies to natural substances. **Keep out of reach of children!**

*The information above was determined based on our most recent experiences. Due to processing methods and environmental influences, as well as the varying nature of the substrates, liability for the general validity of the individual recommendations is excluded. Users must test the product prior to application to ensure it is fit for the designated purpose (sample coating).*

*This document is no longer valid if a new version is published or the product is modified.*

*For the latest product information, please contact Kreidezeit directly or visit our website at [www.kreidezeit.de](http://www.kreidezeit.de).*