



BEECK Undercoat

Pigmented, mat linseed stand oil primer for wood and ferrous metal, indoors and outdoors

1. Product features

Highly opaque, filling high solid primer for durable stand oil coatings on wood, wood materials and ferrous metals, both indoors and outdoors. Also suitable as an adhesion-promoting intermediate coat on load-bearing old oil and alkyd resin-based paints. Diffusible and highly adhesive. Contains stand oils which absorb oxygen when dried and interconnect to form a hard, elastic and water-repellent film. Pore-deep anchoring through penetrating linseed oil enables optimal adhesion. Does not tend to peel off even under intense weathering. Further treatment with BEECK Interior Stand Oil Paint or BEECK Exterior Stand Oil Paints in classic and *pro* quality.

1.1. Composition

- Classic primer made from linseed oil, linseed stand oil and modified boiled oil-resin mixture
- Organic, aromatic-free solvents, silicate matting agents, talc and chalk as fillers
- Pigmented with titanium dioxide in opaque white or, depending on the shade, lightfast mineral coloured pigments
- Free from plasticisers, biocides and preservatives

1.2. Technical features

1.2.1. Overview

- Indoor and outdoor use
- Strong adhesion on common surfaces
- Low in stress and brittleness, does not tend to peel off
- Open-pored, permeable to diffusion and sorption
- Highly productive, easy-to-use, efficient high solid
- Economical application in thin layers
- In keeping with heritage conservation principles

1.2.2. Important construction physics parameters*

Parameters	Value	Conformity
Density 20°C:	approx. 1.35 – 1.45 kg / L	
Viscosity:	approx. 140 s 3-mm flow cup	ISO 2431
SD value (H ₂ O):	< 0.50 m	
Gloss level (60°):	mat (40 – 50)	DIN EN ISO 2813
Flashpoint:	> 61°C	
VOC content (max.):	300 g / L	EU Decopaint Directive Category A / d
Solid content:	> 75% (high solids)	

* Values depend on colour tone

1.2.3. Colour tone

- White or ready-mixed according to BEECK stand oil colour chart, NCS and RAL in the colour of the top coat. Can also be tinted with stand oil full shades for traditional pigmentation.

2. Instructions for use

2.1. Requirements for the substrate

- The substrate must be clean, dry, solid and load-bearing and free from efflorescent, discolouring, adhesion-impairing and/or drying-retardant substances.
- Pay attention to constructive wood protection and blue stain-free wood quality, coordinate chemical wood protection according with the coating system and resistance class.
- Metallic bare ferrous metal or steel, suitable for corrosivity categories C1 - C3 according to DIN EN ISO 12944-2. Not for galvanised sheet steel, anodised aluminium or non-ferrous metals.

2.2. Brief information on the standard structure

- Prime raw wood outdoors with BEECK Oil Primer, indoors if appropriate with BEECK Wood Primer, and bare iron metals with BEECK Corrosion Protection Primer. Clean and sand load-bearing old paintwork to a mat finish.
- Intermediate coat with BEECK Undercoat, matching the colour tone of the top coat.
- Top coat with BEECK Interior Stand Oil Paint or BEECK Exterior Stand Oil Paint, classic or *pro*, after at least 24 hours.

2.3. Substrate and pretreatment

- **Wood, wood-based materials:**

Sand absorbent, raw or non-film-forming impregnated wood and prime with BEECK Oil Primer (for exterior use) or BEECK Wood Primer (for interior use). Completely sand or replace brittle, weathered and greyed wood. Maximum wood moisture content for softwood is 15%, for hardwood 12%. Wash off grease, resin and wax thoroughly with BEECK Lacquer Thinner. Resin-rich exterior wood (e.g. larch) has a tendency towards resin flow in warm temperatures; take this into account on



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south-facing sides. Sample oak (tannic acid!) and tropical wood (discolouring, drying-retardant ingredients) as well as wood materials in advance, check for suitability and observe the supplier's corresponding coating guidelines. Sand, blast or strip weathered, cracked, loose and flaking old acrylic or synthetic resin-based paints down to the pores. Remove paint stripper residues down to the pores. Sand firmly adhering, load-bearing oil and alkyd resin coatings thoroughly to a mat finish and leach if necessary, then immediately treat with BEECK Undercoat. Prime all sides of construction timber and dimensionally stable components (windows) before installation and pre-coat with BEECK Undercoat. Prime the back of external cladding to prevent moisture absorption and ensure rear ventilation. Do not treat the inside of cupboards and drawers with oil-based paints or BEECK Undercoat because of the odour they cause; only paint furniture fronts and exterior surfaces.

- **Glass rebates and sealants (windows):**

Do not paint over permanently elastic sealants, limit the coating to 1 mm above the sealant, check compatibility. Allow hardening sealants (linseed oil putty) to harden sufficiently according to the manufacturer's instructions before painting over.

- Remove rust from **ferrous metals** and prime with BEECK Corrosion Protection Primer. Not for non-ferrous metals, anodised or galvanised steel.
- **Unsuitable substrates** are horizontal or slightly inclined wood exposed to the weather, as well as those in contact with the ground. Observe structural and, if necessary, chemical wood protection. Sample tropical woods, oak and wood materials. Old, plasto-elastic, poorly adhesive and brittle coatings based on acrylics, for example, cannot be painted over. Also unsuitable are galvanised sheet steel, aluminium, anodised aluminium, non-ferrous metals and areas at high risk of corrosion.
- **Inadequate substrates** require a differentiated approach, sampling.

2.4. Instructions for use

2.4.1. General information

Check the suitability of the substrate, see 2.1. and 2.3. Consider the absorbency, strength and structure of the substrate. Sample demanding and critical areas. Ensure suitably qualified application.

- Carefully cover areas not to be treated and protect them from splashes.
- Provide personal protective equipment.
- Do not use in wet conditions, on heated surfaces or in direct sunlight. Minimum processing temperature: +8°C. To dry, provide warmth (room temperature) and fresh air, without direct draughts. Treat fresh paint gently for at least 1 week. In a normal climate (20°C / 65% RH), dust-dry after 3 - 4 hours; wet sandable and paintable after 24 - 48 hours. Allow for longer deadlines under unfavourable conditions. Only paint over dried paint. Block-resistant in a normal climate after several days, avoid sticking over.

2.4.2. Instructions for use

- Application with ring brush, flat brush, paint roller or by spraying (medium/high pressure, air mix). Stir thoroughly before use. Carefully remove any skin and sieve it - do not stir it in.
- Apply in a thin layer, seamlessly and evenly in the direction of the grain. Ensure good edge coverage. Avoid excessive coating thicknesses and spread carefully, even in the area of seams.
- If necessary, dilute with BEECK Lacquer Thinner, e.g. when spraying.
- After at least 24 hours, finely sand (preferably wet), remove dust and repaint.
- Avoid excessive coating thicknesses, even when spraying. Carefully remove any excess and do not allow any "pools"; allow grease marks or paint runs to dry out. Maximum wet layer thickness: 80 – 120 µm. Trial application advisable. Be aware of the risk of spontaneous combustion in extraction filter mats when exposed to oily spray mist.

3. Consumption and container sizes

The consumption on smooth surfaces is approx. 80 – 90 ml per m² and work step. Deviations, e.g. on rough surfaces or during spray processing, should be sampled.

Container sizes: 0.25 L / 0.75 L / 2.5 L / 5 L

4. Cleaning

Thoroughly clean equipment, tools and soiled clothing immediately after use with BEECK Lacquer Thinner.

5. Storage

Shelf life in tightly sealed original container is at least 12 months. Close opened containers airtight, remove any skin and sieve, do not stir in. Never transfer the product into solvent-swellable containers.

6. Hazard warnings, safety advice and disposal

Observe the EC safety data sheet. Safety data sheet available on request. Flammable liquid and vapour. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Cleaning rags, paper or other materials used for soaking up pose a potential fire hazard. Keep out of the reach of children. Do not allow the product to get into eyes, onto skin or onto clothing. Disposal in accordance with official regulations. Waste code: 080111



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7. Declaration

Our aim is to advise you with this technical information, based on our knowledge and practical experience. All information is non-binding. This does not release the user from the obligation to check the suitability of the product and the processing method themselves, depending on the substrate. Technical changes in the course of product development remain reserved. Third-party additives for tinting, thinning etc. are not permitted. Check colour shades before applying. When a new edition is published, this leaflet will automatically lose its validity. The information in the current version of the EU safety data sheets is binding for classification in accordance with the Hazardous Substances Ordinance and for disposal etc.