BEECK Exterior Stand Oil Paint *pro*

Highly weather-resistant oil paint for professional topcoats in outdoor applications. Available in glossy and satin.

1. Product properties

Premium linseed-oil stand-oil paint in painter's quality with excellent long-term durability and maintenance friendliness in outdoor applications. In keeping with traditional oil paint recipes, has no propensity to peeling even in high-weather exposure. Ideal for dimensioned lumber (windows, exterior doors), but also for undimensioned or conditionally dimensioned lumber (cladding, dormers, shutters) and ferrous metals. Also suited for stylistically accurate wood treatments when restoring or preserving the materials of historical structures, but also for contemporary and sustainable architecture. The classic stand-oil blend forms its film by oxidative drying into a vapor-permeable and water-resistant coating. Penetrates deep into the pores by "creeping", low-molecular linseed-oil to form an inseparable bond to porous, dry, and grippy woodwork. Modeled based on siccativated stand-oil paints for historical structure preservation, the paint is applied in thin layers. Even when used for renovations, does not create a vapor barrier of brittle, peeling, and elaborate to remove over-film thickness or organic (synthetic resin) film formers.

1.1. Composition

- Siccativated "fatty" blend of linseed-oil and modified linseed-oil stand-oils
- Organic solvents, film protection
- Finely ground mineral and colour pigments with optimized UV resistance and light-fastness
- Free of softeners

1.2. Technical properties

1.2.1. Overview

- Used for outdoor applications
- Active drying properties, efficient, painter-friendly processing
- Materials, appearance, and nuances compatible with historical structures
- Available in NCS and RAL colour tones
- Low-stress, no propensity to peeling
- Can be painted over without limits
- High-yielding high-solid
- Vapor-permeable, water-repellent, and moisture-regulating
- Weathers to a matte finish and subtle chalking

1.2.2. Important construction characteristic values

Parameter	*Value*	*Conformity*
Density $_{20°C}$:	approx. 1.20 kg / L	
Viscosity:	approx. 100 s, 3 mm viscosity cup	ISO 2431
s_d value (H_2O):	approx. 0.50 m	
Colour fastness	Class B1 - B2 (depending on colour tone)	BFS leafless No. 26
Sheen at 85°:	glossy, satin (medium sheen)	EN ISO 2813
Flashpoint:	35°C	
VOC content (max.):	300 g / L	ChemVOCFarbV, cat. A / d
Solids concentration:	> 70 % (High Solid)	

* values depend on colour tome and sheen

1.2.3. Colour hue

- BEECK stand-oil colour chart and NCS and RAL hues.

2. Processing

2.1. Substrate requirements

- The substrate must be clean, dry, solid, and have good adhesion. It must also be free of efflorescent, discolouring, adhesion-inhibiting substances and/or drying-inhibitors.
- Observe design-based wood protection and ensure wood is free of mold; match chemical wood protection.
- Bare ferrous metals or steel, suited for corrosivity classes C1 – C3 iaw. EN ISO 12944-2. Not for galvanized sheet metal or non-ferrous metals.

2.2. Abbreviated information for standard application

- ***On dimensioned and visually demanding lumber (windows, exterior doors, each on all sides):***
  - Primer with BEECK Primer *pro*
  - Intermediate coat with BEECK Undercoat *pro;* white or tinted
  - Topcoat with BEECK Exterior Stand Oil Paint *pro;* white or tinted

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- ***On all other woods (half-timbered, cladding, dormers, etc.) depending on weathering situation and need:***
  - Primer with BEECK Primer *pro,* alternatively with BEECK Oil Primer (on highly-absorbent wood)
  - Intermediate coat with BEECK Undercoat *pro;* as needed; white or tinted
  - Topcoat with BEECK Exterior Stand Oil Paint *pro;* white or tinted
- ***On ferrous metals and steel:***
  - Primer with BEECK Corrosion protection Primer
  - Intermediate coat alternatively with BEECK Undercoat *pro;* white or tinted
  - One or two topcoats with BEECK Exterior Stand Oil Paint *pro;* white or tinted

2.3. Substrate and pretreatment

- ***Wood:***
  Surface sand absorbent, bare, or not film-forming, impregnated wood and primer with BEECK Primer *pro*. Saturate highly-absorbent, spongy, or leeched wood with BEECK Oil primer, spread excess. Completely sand down or replace crumbling or grayed wood. Maximum wood moisture content: coniferous wood: 15%, deciduous wood: 12%. Throughly wash off grease and wax with BEECK Lacquer Thinner. In hot temperatures, note that resin-rich exterior wood (e.g. lark) tends to exhibit resin flow on south-facing sides. Oak (tannic acid) and tropical woods (discolouring, drying inhibitor ingredients!) and engineered woods must be tests; take note of suitability for outdoor applications and manufacturer's corresponding coating guidelines. Due to moisture absorption, also primer rear of exterior cladding, note rear ventilation. Sand, blast, or etch down to pores any weathered, cracking, loose, and peeling old paint based on enamel, acrylic, or synthetic resin. Remove paint stripper residue down to pores. Thoroughly sand high-bonding, adhering oil and alkyd resin paints to a matte finish, continue treating directly with BEECK Undercoat *pro*. Prepaint untreated, exposed wood with BEECK Primer *pro*. Prior to install, primer all sides of structural lumber and dimensioned lumber (windows) and prepaint with BEECK Undercoat *pro*.
- ***Glass rebates and sealants (windows):***
  Do not paint over elastic sealing compounds, limit paint on sealing compound to 1 mm film thickness. Where specified by the manufacturer, paint over plastic sealing compounds; test compatibility. Before painting over, allow curing sealing compounds, e.g. linseed-oil putty, to dry thoroughly; observe manufacturer's instructions.
- **Note for BEECK Undercoat *pro*:**
  High-yielding, sandable, matte intermediate coating specifically on dimensioned and visually demanding lumber. For tinted or coloured topcoats, an intermediate coat of BEECK Undercoat *pro* in the same colour is applied (indicate with purchase order).
- ***On ferrous metals and steel:***
  Remove rust thoroughly, surface-sand, then degrease with BEECK Lacquer Thinner, pretreat with BEECK Corrosion Protection Primer and BEECK Undercoat *pro*, or two topcoats with BEECK Exterior Stand Oil Paint *pro*.
- ***Unsuited substrates*** include horizontally installed woods or woods exposed to weather at a slope, exposed to heavy mechanical loads, and those with ground contact. Take note of design-based and any applicable chemical wood protection. Test tropical woods, oak, engineered woods. Plasto-elastic, low-bonding, and brittle old paint, e.g. on acrylic basis, cannot be painted over. Galvanized sheet metal, non-ferrous metals, and areas at high corrosion risk are also unsuited.
- ***Deficient substrates*** call for a differentiated approach and testing.

2.3.1. Care and post-treatment

Outdoor woods require maintenance. For heavy weather exposure, retreat with light surface sanding and painting over every 2 - 5 years. Simple design-based measures such as roof overhangs, rounded edges, and careful wood selection (resistance classes) in total significantly extend the maintenance cycles and the long-term durability of wood and the paint. Note effects of heat and premature matting on dark colours and solid colours on southern exposures. Note reduced light-fastness for synthetic colour pigments. Regularly wash off dirt film with soapy water or alcohol-based cleaning agents. Dirt film promotes mold infestation, e.g. also on roof underlayments. Consider wood paints with fungicides for tough and recurring infestation of mold and micro-organisms.

2.4. Processing instructions

2.4.1. General instructions

Verify substrate suitability. Note absorption capacity, strength, and texture of the relevant substrate. Test demanding and critical surfaces. Ensure qualified processing.

- Carefully cover and protect untreated surfaces, in particular glass, window sills, expansion joints, paint coats, plastic, and hardware against overspray.
- Supply personal protective gear.
- Paint self-contained surfaces exclusively with containers from the same manufacturing batch.
- Ensure sufficient qualified labor and smooth paint application.
- Test colour prior to processing.
- Intermediate coat with BEECK Undercoat *pro* in the same colour with BEECK Exterior Stand Oil Paint *pro.*
- Do not process when wet, risk of frost, on heated surface or in full sun.

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- Minimum processing temperature: +8°C. For drying, ensure ventilation and heat (room temperature), treat fresh coats with care.
- Drying time for each coat: in standard climate (20 °C / 65 % rH), dust-dry after 2 – 3 hours, can be sanded and painted after approx. 24 – 48 hours. Plan for longer waiting times in unfavorable drying conditions. Only paint over dried coats. Resistant to blocking in normal climate after several days; avoid excessive coat thicknesses and bonding, e.g. in glass rebates.
- Protect fresh outdoor coats from rain, hang scaffolding tarps.

2.4.2. Application
Process with ring brush, flat brush, enamel roller, or with spray method (low pressure, high pressure, airmix). Mix thoroughly and screen as needed before use.

- Apply a thin and even coat with the grain, blending in the material. Drying is inhibited if coat is too saturated and /or uneven. Note thorough edge coating. Avoid excessive film thickness. Brush out thoroughly also on sawmill finish cladding, and in groove and gap areas and in depressions.
- Dilute as needed with up to 3% BEECK Lacquer Thinner, specifically on absorbent and rough substrates and when spraying.
- Wait 24 - 48 hours between coats. Sand lightly between coats in the event of dust inclusions and for extended hold times (> 1 week).
- Avoid excessive film thickness even when spraying. Carefully brush out excess with brush, in particular on horizontal surfaces, do not allow puddles, drip edges or runs to dry in gaps and pockets. Recommended maximum wet film thickness: 80 – 120 µm. Test application recommended. For oily airborne spray, note spontaneous combustion hazard in vacuum collector filter pads.

3. Yield and container sizes
The yield for smooth, normally absorbing substrates is approx. 0.09 L BEECK Exterior Stand Oil Paint *pro* per m² and pass. Determine additional consumption on sawmill finish lumber, etc. in test coats.
Container sizes: 0.75 L / 2.5 L / 10 L

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

5. Storage
Min. shelf life: 24 months when kept tightly sealed in original container. Seal opened containers airtight. Remove, do not mix in any skin. Never transfer product into solvent-swelling containers.

6. Hazard notices, safety instructions, and disposal
Note EC Safety Data Sheet. Safety Data Sheet available on request.
Warning. Flammable liquid and vapour. May cause drowsiness or dizziness. Harmful to aquatic life with long lasting effects. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly closed. Call a POISON CENTER or doctor if you feel unwell. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Store in a well-ventilated place. Keep cool. Store locked up. Contains TURPENTINE OIL, 2-BUTANONE OXIME, 3-Iodo-2-propynylbutylcarbamate. May produce an allergic reaction. Materials such as cleaning rags, paper wipes and protective clothing, which are contaminated with the product may spontaneously self-ignite some hours later. To avoid the risks of fires, all contaminated materials should be stored in purpose-built containers or in metal containers with tight-fitting self-closing lids, or laid out flat in a single layer to dry, or placed in a closed metal container soaked with water. Dispose in compliance with statutory regulations.

- Waste code for residual product: 080111

7. Declaration
This technical information is intended to advise you based on our findings and practical experience. All notices are non-binding. They do not relieve the user from performing their own substrate-dependent tests for product suitability and processing method. Technical changes due to product development made without notice. Third-party additives for tinting, diluting, etc. are not approved. Test colour prior to processing. This leaflet automatically expires when a revised edition is published. The details in the EC Safety Data Sheets in their current version are binding for the classification as per hazmat directive, disposal, etc.