

Technical Data Sheet

KUNOS Natural Floor Sealer No. 241

Range of application	For interior solid timber, e.g. furniture and floors as well as Multiplex boards. Suitable for OSB on walls and ceilings. Only to a limited extent suitable for veneers and plywood (see page 2 – important tips). Not suitable for chipboards, stained wood or cabinet interiors.
Technical qualities	Reinforces and deepens the natural color of the wood grain. Produces a matt film after one coat and a satin glossy finish after 2 - 3 coats. Water repellent. Complies with the German Industrial Norm DIN 53 160 for color fastness when exposed to perspiration and saliva. Complies with the German Industrial Norm DIN EN 71 Part 3, suitable for toys. Free of organic-chemical compounds according to DIN EN 71 part 9.
Full declaration	Differs according to color: Isoaliphates, linseed oil - stand oil - natural resin ester, linseed oil, linseed-oil - wood oil - stand oil, natural resin glycerol ester, linseed oil - stand oil, chalk, titanium dioxide (only in the color white) , silicic acid, micronized wax, orange oil, dehydrated amino sugar and drying agents free of lead (Ca, Mn, Zr).
Colors	002 clear 204 white.
Dilution	Ready for use for painting. For spraying add max. 5 – 10 % SVALOS Spray Thinner No. 293. For dipping add max. 10 – 20 % SVALOS Spray Thinner No. 293.
Application method	By brush or with a shorthair roller. By spraying, dipping, with a cloth-bale or with a single disc rotary machine or orbital sander/disc-type sander at temperatures above 16° C (61° F).
Coverage	Determine the exact coverage by doing a test coat. First coat: 45 ml/m ² i.e.1 liter (1.06 quart.) is sufficient for appr. 22 m ² (237 ft ²) Second coat: 11 ml/m ² i.e.1 liter (1.06 quart.) is sufficient for appr. 90 m ² (968 ft ²) Third coat: 4 ml/m ² i.e. 1 liter (1.06 quart.) is sufficient for appr. 250 m ² /l (2691 ft ²)
Cleaning	Clean equipment immediately after use with SVALOS Thinner No. 222, or LEVO Brush Cleaner No. 997.
Drying time	At 23°C (73.4°F) and a relative humidity of 50%: first coat 12 hours, further coats 24 hours. Final durability is reached after 4 weeks. At higher temperatures, please consider shorter drying times and polish more quickly. At lower temperatures and higher humidity, please consider longer drying times as given above.
Specific gravity	Approximately 0.86 - 0.90 g/ml.
Safety advice	Ensure good ventilation during and after application. Always be sure to store cleaning cloths, polishing pads, sponges, etc. that are still wet or even slightly moist with KUNOS Natural Floor Sealer No. 241 in an airtight metal container or in water until their disposal, as there is a danger of combustion caused by the plant oil content. The liquid or applied product is not self-ignitable. P102 Keep out of reach of children. P301+P310 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a doctor. EUH208 Contains limonene (orange oil). Can cause allergic reactions. EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist. Hotline for allergy sufferers: +49 (0)5825 / 8871.
Disposal	According to locally regulated laws.
Container Size	0.1l; 0.25 l; 0.75 l; 2.5 l; 10 l; 30 l; 200 l.
Storage	Cool and dry. Shelf life: unopened at least 4 years. Opened products react with oxygen, over time skin formation and rancid smell can occur. Residues should be transferred into smaller containers.

How to use

KUNOS Natural Floor Sealer No. 241

Wooden surface

Preparation

Wood must be dry (moisture content below 12 %), solid, able to absorb, free of resin and dust. Sand gradually and in accordance with the gradation of the sandpaper grain, for **furniture** up to 240 grain, exception for oak up to 180 grain, for **floors** up to 120 grain with a roller grinder (grinding device with sandpaper roller), and then up to 180 grain with grit.

Application

Test application! Remove possible skin formed on surface in case of already opened containers. Stir well. Depending on requirements, absorbency and type of wood: 1 - 3 coats until a coating layer is formed. For floors, apply at least 3 coats.

1st application: generously (with a brush, surface brush, short-pile roller or single-disc rotary machine) and polish in after 10 - 15 min and, if necessary, remove any excess (with a grain-free pad [oil absorbent pad] and polishing machine [random orbital sander] or a lint-free cotton cloth). The harder the wood (for example walnut), the longer it needs to absorb the oil, but a maximum of 25 minutes.

2nd and 3rd application: spread dropwise (approx. 1 teaspoon per m²) and polish immediately with a grain-free pad and polishing machine (random orbital sander) or a lint-free cotton cloth.

For particularly smooth, hard-wearing surfaces, intermediate sanding after the first application. For furniture with pad, fleece or the like, with at least 280 grit.

For floors, no intermediate sanding is necessary if the excess oil has been carefully removed (e.g. with an oil absorbent pad) after the 1st rich application.

OSB

After pre-sanding with a sanding grit 120 – 180 grain (not with a roller coater, as too much of the functional surface will be milled away), apply 3 coats of KUNOS Natural Floor Sealer No. 241. Determine the exact amount needed by doing a test application.

Renovating old floors

Pore-clogged coatings (oil-based paints, lacquers, multi-layered coatings) and wax coatings must be sanded or stripped until there is no old residue. Open-pored old coatings must be cleaned and, if necessary, slightly sanded. Test the surface for absorbency and sustainability. Preparation and application are according to the wood description above.

Maintenance & Care

Clean with TRENA pH-Neutral Cleaner No. 556 diluted in water. Wipe it with a moist, but not wet cloth. Every 4th to 5th cleaning should be done with GLANOS Natural Liquid Wax Cleaner No. 559 instead of TRENA.

After-treatment with KUNOS Natural Floor Sealer No. 241 or KUNOS Maintenance No. 1862, if the surface looks matt.

Important tips

The finer the sanding, the lower the coverage. This also reduces the tendency of “wear and tear” and soiling of the surface. When sanding too coarse, the surface tends to water-sensitivity and the possibility of green coloration increases.

The longer KUNOS No. 241 has a chance to interact, the stronger is the reinforcing and deepening of the natural color of the wood grain. In the grooves, KUNOS Oil No. 241 should be completely removed.

Discoloration is possible by water if the wood is not completely saturated with KUNOS Natural Oil Sealer, or where a coating layer did not form.

A more homogeneous surface appearance is achieved with an after-treatment with ALISA Hard Wax No. 302.

In case of **veneers** and **plywood**, the first coat should be applied sparingly and the wet film should be removed after 5 minutes. KUNOS is not suitable for veneers and board layers (plywood) with a **layer thickness of less than 0.5 mm** (after sanding) KUNOS is **not suitable**.

Adhesives and glues must be completely dry before applying the 1st coat.

To preserve the color of light woods like maple or birch, the first coat is done with color white. Thereafter 2 applications with KUNOS clear.

In the case of white yellowing is possible with low light incidence.

In the first 4 weeks after the last application, the coating hardens slightly internally. During this time, standing water, flat covers and mechanical stress should be avoided. The surface can otherwise be used normally.

These directions are the result of long years of research and practical testing. They are backed by our most current expert information. New findings may invalidate this information. The latest version is available on our website at www.livos.de. This data sheet is meant to serve as information and instruction. No legal liability should be interpreted from it. In case of doubt, please contact the LIVOS customer service (see page 1).