



## Technical Data Sheet

### KUNOS Natural Oil Sealer No. 244

- Suitable for** For interior solid timbers such as furniture, window sills, floors, OSB – boards, ply, veneer and Multiplex. Also suitable for toys.
- Technical qualities** Reinforces and deepens the natural colour of the wood grain. After 1 coat a matt surface and after 2 - 3 coats it produces a velvet-glossy finish. Water-resistant according to German Industrial Norm DIN 68 861 part 1. Complies with DIN 53 160, fast to perspiration and saliva. DIN EN 71 part 3 certified, suitable for toys.
- Full declaration** Depending on colour in different proportions: Linseed oil, linseed oil - stand oil - natural resin ester, linseed oil - wood oil - stand oil, highly transparent iron oxides, titanium dioxide, natural resin glycerol ester, linseed oil - stand oil, orange oil, isoaliphates, silicic acid, micronized wax, pine oil, rosemary oil, dehydrated amino sugar and drying agents free of lead.
- Colors**
- |                 |              |                 |
|-----------------|--------------|-----------------|
| 002 Clear       | 082 Rosewood | 054 Mahogany    |
| 088 Smoked oak  | 062 Walnut   | 089 Antique oak |
| 064 Dark walnut | 069 Tobacco  | 204 White       |
- Dilution** SVALOS Thinner No. 222.
- Application method** With a brush, spreading with a lambswool applicator or with a short haired roller, by spraying, dipping, with a wadded cloth, or with a polishing machine (roller coater) at temperatures above 16°C (61°F).  
NOTE: When using an oil with pigment stain such as Kunos or Kaldet we recommend using the Kunos clear as the final coat. This ensures that the remaining pores are filled and the pigments are also closed in. By using a clear one will also achieve more sheen to the finish, whereas with a pigmented oil the pigment sits on top giving a slightly duller appearance. Later, rejuvenation with a clear oil is quick and easy to do, with no feathering in necessary. For furniture, the Kunos countertop oil has the added heat protection up to 50 degrees.
- Coverage**
- First coat: 45ml/m<sup>2</sup>, i.e. 1 liter is sufficient for approx. 22 m<sup>2</sup>  
Second coat: 11ml/m<sup>2</sup>, i.e. 1 liter is sufficient for approx. 90 m<sup>2</sup>  
Third coat: 4ml/m<sup>2</sup>, i.e. 1 liter is sufficient for approx. 250 m<sup>2</sup>  
A test coat for adhesion and compatibility is recommended.  
For spraying, add max. 5-10 % SVALOS Thinner No. 222.  
For dipping, use max. 10-20% SVALOS Thinner No. 222.
- Cleaning** Clean equipment immediately after use with SVALOS Thinner No. 222.
- Drying time** At 23°C and 50% relative humidity: First coat 12 hours, subsequent 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. (see reverse side for further information).
- Specific gravity** Approximately 0.89 g/ml.
- Safety advice** Provide enough ventilation after application.
- Always be sure to store and then dispose of cleaning cloths, polishing pads, sponges, etc. that are still wet or even slightly moist with KUNOS Natural Oil Sealer No. 244 in an airtight metal container or in water, as there is a danger of spontaneous combustion caused by the plant oil content.
- The product itself will not combust spontaneously.  
Contains limonene, wood oil and Cobalt (2+) salts. Can cause allergic reactions.  
S 2 Keep out of the reach of children.  
S 62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
- Disposal** According to locally regulated laws.
- Container sizes** 0.05 lt; 0.25 lt; 0.75 lt; 2.5 lt; 5lt (clear only); 10 lt. Note 089 antique oak, and 069 tobacco not aval in 10l

- Storage** Cool and dry. Remove any surface skin (if any) prior to mixing thoroughly. If unsure of outcome, testing is recommended. Transfer unused portion of product to a smaller container for storage.
- Preparation** Wood must be dry (moisture content below 12 %), solid, absorbent, clean, free of resin and dust. Sand **furniture** gradually with sandpaper up to 180- 240 grain (exception oak use 180 grain). Sand **floors** gradually up to 120 grain with a belt sander. If required, then up to 150 grit with screenmesh.
- Application** Stir thoroughly before use. Remove possible skin formed on surface. Test application is recommended. Depending on surface requirement, absorbency and the type of wood, apply 1 to 3 thin coats. For an especially smooth and heavy-duty surface, buff after the first application. On furniture, use a pad of at least 280 grain. On floors, use a non-abrasive white pad. Polish this wet film on the first 2 coats after 10 – 15 minutes with a polishing machine, eccentric sander or a lint-free cloth. The 3<sup>rd</sup> coat must be polished in immediately after application drop by drop using approx. 1 teaspoon per m<sup>2</sup>. On floors and heavy-duty surfaces apply at least 3 coats, spreading with an applicator, short haired roller, or machine.
- OSB** After pre- grinding with sanding paper with a 120 – 180 grain (not a belt sander as too much will be taken off the surface layer), apply 3 layers of KUNOS very thinly. The 1<sup>st</sup> and 2<sup>nd</sup> coats can after 10 – 15 minutes be polished in with an eccentric sander using a single pad machine or a lint free cloth. The 3<sup>rd</sup> coat must be polished in immediately after application drop by drop using approx. 1 teaspoon per m<sup>2</sup>. On floors and heavy-duty surfaces apply at least 3 coats, spreading with an applicator or with a short haired roller, or with a machine. The necessary amount of KUNOS Natural Oil Sealer No. 244 must be determined by doing a test application. To keep the original color of the wood, prime with KUNOS white No. 244-204. For a color application, prime with KALDET Transparent Wood Stain No. 270 or with KUNOS No. 244 color.
- Concrete** Stir thoroughly before use. Remove possible skin formed on surface. Test application is recommended to determine absorption rate. Apply 2 thin coats of Kunos (over surface primed with Linus No 260). For an especially smooth and heavy-duty surface, buff after the first application. Polish wet film with a rotary sander (or lint free cloths) and white pad (non abrasive). The 3<sup>rd</sup> coat must be polished in immediately after application drop by drop using approx. 1 teaspoon per m<sup>2</sup>. On floors and heavy-duty surfaces apply at least 3 coats, spreading with an applicator or with a short haired roller, or with a machine.
- Renovation of old furniture** Pore-clogged coatings (oil-based paint, lacquers, coating varnishes), as well as wax finishes must be sanded or stripped until there is no old residue. Open-pored old coatings must be cleaned; if necessary, sanded and tested whether KUNOS Natural Oil Sealer No. 244 can be applied and absorbed. Then follow the regular instructions for preparation and application as described above.
- Cleaning and care** Clean with TRENA pH-Neutral Cleaner No. 556 (add a maximum of 10 ml in 10 l of water). Wipe surface with a moist, but not wet cloth. Every 4<sup>th</sup> to 5<sup>th</sup> cleaning can be done with GLANOS Natural Liquid Wax Cleaner No. 559 instead of TRENA for added sheen. If the wooden surface looks matt, apply a thin layer of KUNOS Floor Maintenance No. 1862 and polish or rub into the surface.
- Important tips** *Fine sanding* reduces the quantity of KUNOS required. This also reduces the tendency of “wear and tear” and soiling of the surface. When sanding too coarse, the surface becomes too water vaporized and the possibility of greening increases. *The longer* the KUNOS No. 244 has a chance to interact, the stronger is the reinforcing and deepening of the natural color of the wood grain. In grooves, the KUNOS Natural Oil Sealer No. 244 should be completely removed. *Wood not* completely saturated with KUNOS Natural Oil Sealer No. 244 and exposed to water may develop stains or discolor. *For glued crosscut wood* or wood veneers, with a minimum of 0.5 mm after sanding, the 1<sup>st</sup> coat is to be applied very thinly, and the wet film to be removed after 5 minutes. For glued crosscut wood or wood veneers, with a surface coat of smaller than 0.5 mm, the KUNOS is not suitable. *Adhesives and glues* have to be completely dry before treatment with the 1<sup>st</sup> KUNOS Natural Oil Sealer No. 244 coat. *When using colored* KUNOS or KALDET, make sure to sand evenly and apply sparingly. *KUNOS Natural Oil Sealer No. 244* white as an initial treatment preserves the natural wood tone, particularly on light colored wood species such as maple and birch. It is only for limited use on ash and oak. KUNOS white must be wiped away thoroughly after 10 minutes to prevent pigment traces or white spots from forming, or streaks building. We do not recommend the Livos oils on BRUSH BOX (EMMENOSPERMA ALPHITIONIODES).

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. 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 retailer, wholesaler, or manufacturer.

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**LIVOS Australia Pty Ltd**, Phone 03.9762 9181, [www.livos.com.au](http://www.livos.com.au) [info@livos.com.au](mailto:info@livos.com.au)  
LIVOS Plant Chemistry D-29568 Wieren · Tel. +49 5825 / 88-0 · Fax 88-60 · [www.livos.de](http://www.livos.de) · [info@livos.de](mailto:info@livos.de)