

eKO  WOOD®

A stylish way to live...

WOODEN ENGINEERED FLOORING

One product
combining all the benefits

Wood is one of the most indigenous raw materials, which is why wooden floors can greatly enliven any interior and give it a genuine natural style. Ekowood produces products that retain their natural beauty and are constantly being improved through research and innovation. This creates new modern flooring options for any space. With years of experience and know-how, Ekowood has the expertise and authority in the production of multi-layer wooden flooring. When working with natural wood, it is very important to take into account its susceptibility to adsorption or desorption. Wood always tries to reach a so-called moisture equilibrium according to the exposed environment. Thanks to our patented Cross-Grain technology, Ekowood floors are 70% more dimensionally stable than other common wooden floors. Each of the three layers that make up an Ekowood floor is placed crosswise, which adds strength to the integrity of the floor and reduces the natural processes of wood shrinkage and expansion. Therefore, the use of this technology results in stronger and more stable floors.

EXCELLENT PRETREATMENT, SURFACE FINISH

Ekowood engineered oak flooring can be purchased with a pre-finished surface, which only needs a final surface finish after the floor has been installed.

Because of this service, Ekowood is one of the few manufacturers that can satisfy customers with individual requirements for the final shade of the floor. The finishing of oak can be very varied and if you do not find your distinctive colour in the standard EKOWOOD programme, you can proceed to an individual selection of shades that suit you ideas. This usually requires a personal visit to an expert EKOWOOD seller, who will offer you an individual customisation of the final look using natural oil and wax coatings from OSMO.

The floors with the final finish are treated with OSMO Polyx Oil. OSMO is a brand that ensures the perfect appearance and quality of your wooden surfaces thanks to its unique formula based on pure, natural ingredients and thanks to its quality workmanship.

eKO WOOD®
A stylish way to live...

The green colour in our logo shows that Ekowood is an environment-friendly product and that our wood is obtained only from legally managed forest resources.

We are dedicated to produce the highest quality products and to the sustainable management of our forests. Ekowood is proud to be involved in the protection of the Earth's environment, as it is our belief and obligation to keep the Earth as natural and clean as possible, as a legacy for the future. This statement can be seen from the activities carried out by Ekowood and the companies within the Group.

Ekowood is actively involved in sustainable forestry through parent company TSH Resources Berhad. In 1997, TSH was awarded with a 100-year timber concession to carry out conservation and plantation on 300,000 acres of forestry land in Ulu Tungud, Sabah, also known as Forest Management Unit 4 (FMU4). Out of these 300,000 acres, 30% of the forest land has been designated for conservation purposes and a significant land area has been set aside for a 13-year forest plantation development program to plant a total of 5.5 million trees.

Apart from sustainable forestry, TSH is also involved in generating green energy in the form of biomass and biogas power. Both biomass and biogas are environment-friendly and are qualified as a Clean Development Mechanism (CDM) project under Kyoto protocol.

Ekowood is extremely committed to the world environment. Consumers interested in obtaining products sensitive to the environment should be comfortable and well assured with Ekowood products.



LOCATION AND PRODUCTION



HEALTHY KNOTS: allowed in maximum size of 20 mm
DEAD KNOTS: allowed in maximum size of 20 mm puttied, 1 piece on the face side
SAPWOOD: allowed on maximum of 1/3 of the surface
COLOUR: balanced harmony is characteristic for this grading
RESIN POCKETS: not allowed
INSECT TRAILS: not allowed
END SPLITS: not allowed

GRADING UNICA



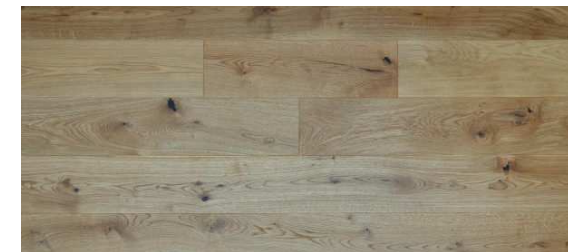
HEALTHY KNOTS: allowed in size approx. 30 mm
DEAD KNOTS: allowed in maximum size of 30 mm puttied, 3 pcs on the face side
SAPWOOD: allowed in a max. of 1/3 of the surface
COLOUR: colour differences and contrast are characteristic for this grading
RESIN POCKETS: allowed in max. length of 50 mm and in max. width of 3 mm
HOLES DONE BY INSECTS: 2 mm; allowed max. of 2 pieces per bundle
END SPLITS: not allowed

GRADING CLASSIC



HEALTHY KNOTS: allowed without limitation
DEAD KNOTS: allowed in maximum size of 120 mm puttied without limitation
SAPWOOD: allowed up to a maximum of 50% of the width of the board
COLOUR: stronger colour differences and contrast are typical for this grading
RESIN POCKETS: allowed without limitation
SPLITS IN THE MIDDLE: allowed with max. width of 1.5 mm and max. length of 150 mm, puttied
HOLES DONE BY INSECTS: allowed
END SPLITS: allowed and filled with a brown putty

GRADING RUSTICAL



TEMPERATE WOOD COLLECTION



OAK, ASH, WALNUT

Our calm and colour-balanced hardwood floors add effortless elegance to any room.

OAK

Sapwood is lighter than heartwood, which is also lighter yellow-brown, usually straight-fibred but often irregularly or cross-fibred. It has a characteristic silvery pattern on the radial section caused by the broad rays and has a slightly rough texture. Density after drying: 720-750 kg/m³.

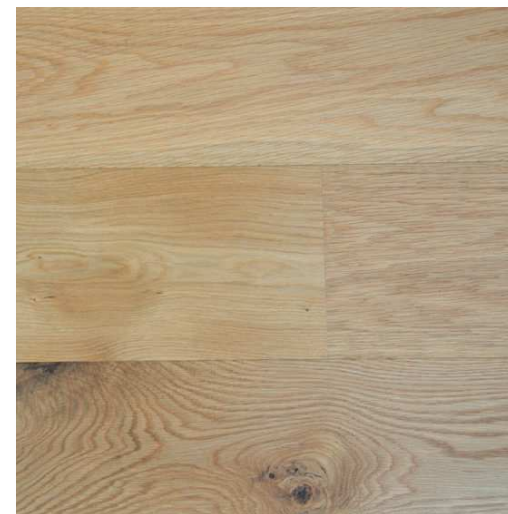
ASH

Northern white ash harvested in North America offers an interesting wood structure without knots. Durable and dimensionally stable wood. Ash wood has exceptional durability, incomparable stability and a beautiful rich colour. Wood density after drying: approx. 660 kg/m³.

AMERICAN WALNUT

American walnut is most widespread in the USA and Canada. It is sought after for its interesting colour and pattern. In addition, it has excellent dimensional stability. American walnut is characterised by its darker brown heartwood, which occasionally shows a purple tinge. The dark brown colour of the heartwood contrasts sharply with the much lighter sapwood, which is usually yellow-grey to almost white. Density of wood after drying: approx. 680 kg/m³.

1-STRIP TRANSPARENT



Surface treatment:
OSMO oil, clear matt

Dimensions (mm):
13,5 x 192 x 1820/2150

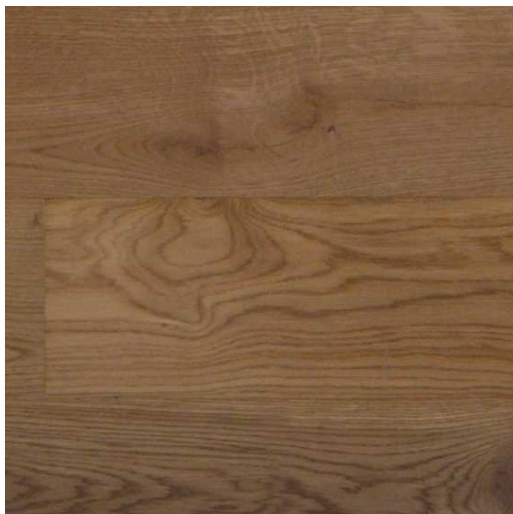
Design:
slightly shrunken longitudinal and transverse edges, 4V,
brushed surface



EUROPEAN OAK

RUSTICAL

1-STRIP LIGHTLY SMOKED



Surface treatment:
OSMO oil, clear matt

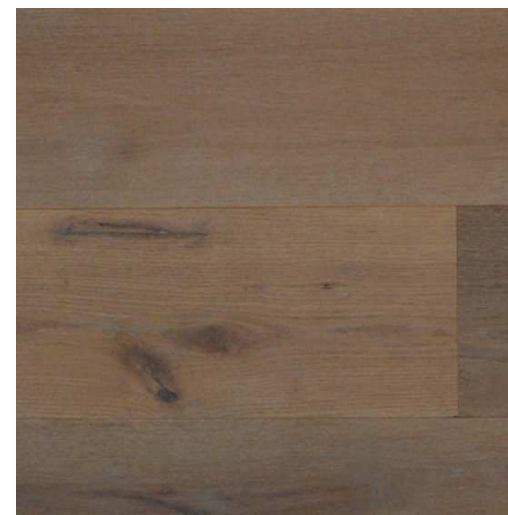
Dimensions (mm):
13,5 x 192 x 1820/2150

Design:
slightly shrunken longitudinal and transverse edges, 4V,
surface brushed



RUSTICAL

1-STRIP LIGHTLY SMOKED WHITE



Surface treatment:
OSMO oil, white

Dimensions (mm):
13,5 x 192 x 1820/2150

Design:
slightly shrunken longitudinal and transverse edges, 4V,
surface brushed



1-STRIP TRANSPARENT



Surface treatment:
OSMO oil, clear matt

Dimensions (mm):
13,5 x 192 x 1820/2150

Design:
slightly shrunken longitudinal and transverse edges, 4V,
surface brushed



1-STRIP WHITE



Surface treatment:
OSMO oil, white

Dimensions (mm):
13,5 x 192 x 1820/2150

Design:
slightly shrunken longitudinal and transverse edges, 4V,
surface brushed



1-STRIP NATUREL



Surface treatment:
OSMO oil, naturel

Dimensions (mm):
13,5 x 192 x 1820/2150

Design:
slightly shrunken longitudinal and transverse edges, 4V,
surface brushed



1-STRIP GREY



Surface treatment:
OSMO oil, grey

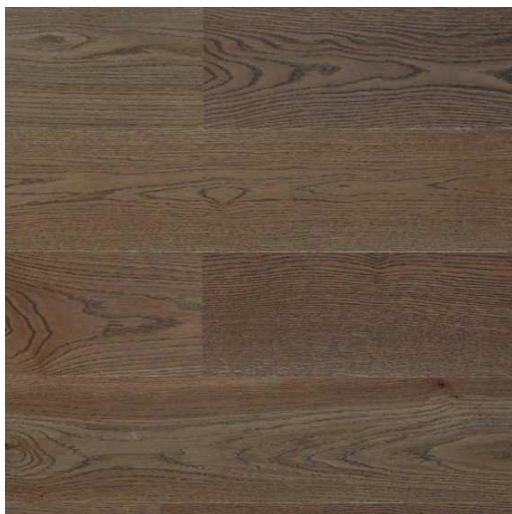
Dimensions (mm):
13,5 x 185/192 x 1820/2150

Design:
slightly shrunken longitudinal edges, 2V*
slightly shrunken longitudinal and transverse edges, 4V,
surface brushed

*available until running out of stock



1-STRIP EBONY



Surface treatment:
OSMO oil, ebony

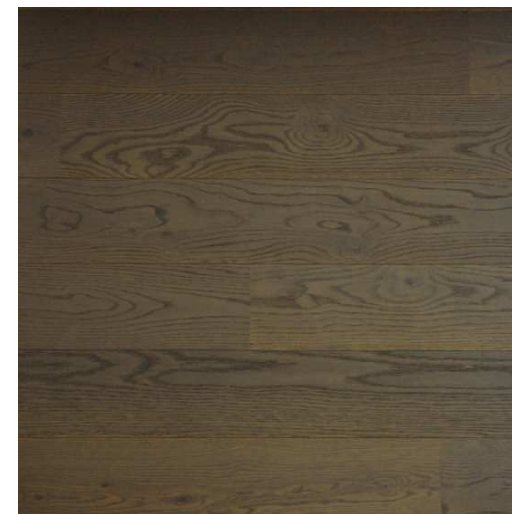
Dimensions (mm):
13,5 x 185/192 x 1820/2130

Design:
slightly shrunken longitudinal edges, 2V*
slightly shrunken longitudinal and transverse edges, 4V,
surface brushed

*available until running out of stock



1-STRIP GRAPHITE



Surface treatment:
OSMO oil, graphite

Dimensions (mm):
13,5 x 185/192 x 1820/2150

Design:
slightly shrunken longitudinal edges, 2V*
slightly shrunken longitudinal and transverse edges, 4V,
surface brushed

*available until running out of stock



1-STRIP WITHOUT SURFACE TREATMENT



Surface treatment:
without surface treatment
Recommended colours for individual optics:
Osmo Polyx-Oil Tints, Osmo Oil Stain,
Osmo 2K Wood Oil.

Dimensions (mm):
13,5 x 192 x 1820/2150

Design:
slightly shrunken longitudinal and transverse edges, 4V,
surface brushed



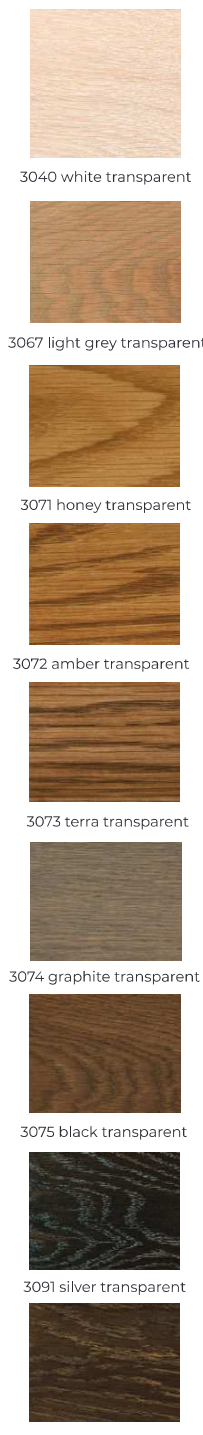
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from: company Osmo Holz und Color, DE

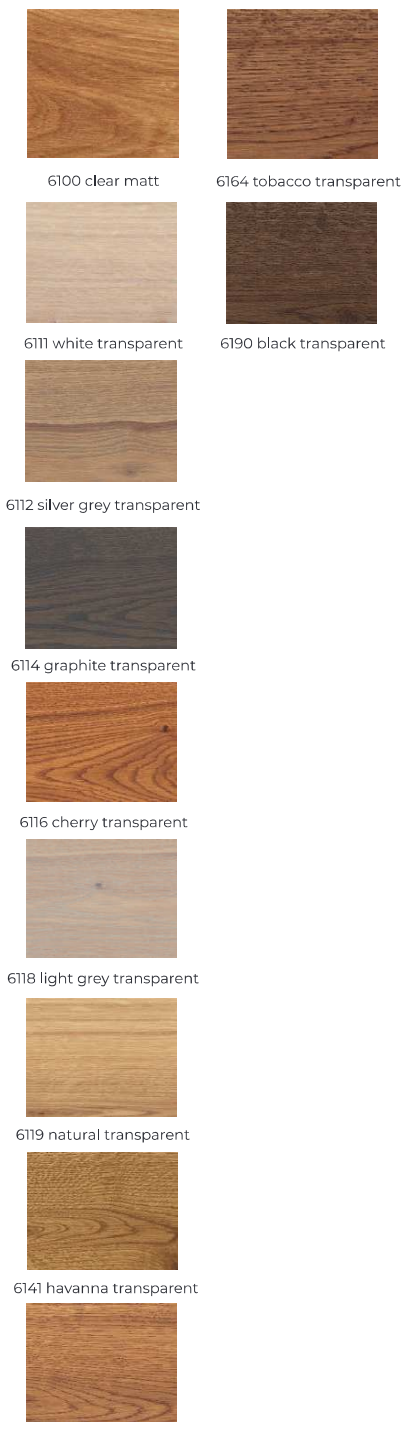
OIL STAIN



POLYX-OIL TINTS



2K WOOD OIL





ASH

1-STRIP TRANSPARENT



Surface treatment:
OSMO oil

Dimensions (mm):
13,5 x 136 x 1820/2130

Design:
without longitudinal phases,
surface sanded, smooth

3-STRIP TRANSPARENT



Surface treatment:
OSMO oil

Dimensions (mm):
13,5 x 195 x 2200

Design:
without longitudinal phases,
surface sanded, smooth



1-STRIP TRANSPARENT



Surface treatment:
OSMO oil

Dimensions (mm):
13,5 x 136 x 1820/2130

Design:
without longitudinal phases,
surface sanded, smooth

3-STRIP TRANSPARENT



Surface treatment:
OSMO oil

Dimensions (mm):
13,5 x 195 x 2200

Design:
without longitudinal phases,
surface sanded, smooth

AMERICAN WALNUT



EXOTIC WOODEN COLLECTION

DOUSSIE, MERBAU, TEAK



DOUSSIE

Doussie is hard, durable, resilient and decorative wood. It has a light brown, orange-brown to reddish-brown coloration that tends to develop over time and darkens. The wood has a natural gloss and medium to coarse texture. Density of wood after drying: approx. 800 kg/m³.

MERBAU

Merbau is commonly found in lowland coastal forests of Indian-Malaysian region in the Southeast Asia. Merbau has orange-brown core colour wood that gradually darkens from brownish grey to a darker reddish brown. The sapwood, with its light yellow colour, is clearly distinguishable from the heartwood. The wood has a coarser texture, usually straight fibred. Density of the wood after drying: approx. 800 kg/m³.

TEAK BURMESE

Teak comes from Burma and also grows in India, Thailand, Indonesia and Java. Authentic teak has narrow, light yellow-brown sapwood and dark golden-brown heartwood that darkens to medium or dark brown due to air. Teak has a predominantly straight fibre. Density of the wood after drying: approx. 680 kg/m³.

DOUSSIE 1-STRIP TRANSPARENT



DOUSSIE 3-STRIP TRANSPARENT



Surface treatment:
OSMO oil

Dimensions (mm):
13,5 x 136 x 1820/2130

Design:
without longitudinal phases,
surface sanded, smooth

Surface treatment:
OSMO oil

Dimensions (mm):
13,5 x 195 x 2200

Design:
without longitudinal phases,
surface sanded, smooth

MERBAU 1-STRIP TRANSPARENT



MERBAU 3-STRIP TRANSPARENT



Surface treatment:
OSMO oil

Dimensions (mm):
13,5 x 136 x 1820/2130

Design:
without longitudinal phases,
surface sanded, smooth

Surface treatment:
OSMO oil

Dimensions (mm):
13,5 x 195 x 2200

Design:
without longitudinal phases,
surface sanded, smooth



TEAK BURMESE 1-STRIP TRANSPARENT



Surface treatment:
OSMO oil

Dimensions (mm):
13,5 x 136 x 1820/2130

Design:
without longitudinal phases,
surface sanded, smooth

ACCESSORIES &
TECHNICAL INFORMATION



TEMPERATE WOOD COLLECTION

WITHOUT SURFACE TREATMENT



50 x 13 mm

OAK



35 x 5 mm

WITH SURFACE TREATMENT

OAK TRANSPARENT



LIGHTLY SMOKED OAK



OAK WHITE



OAK NATUREL



OAK GRAPHITE



OAK EBONY



40 x 19 mm

ASH



AMERICAN WALNUT



EXOTIC WOOD COLLECTION

DOUSSIE



MERBAU



TEAK



RECOMMENDED PROCEDURE FOR GLUING A MULTI-LAYERED WOODEN FLOOR DIRECTLY TO THE SCREED WITHOUT THE NEED FOR TROWELLING

OPTION WITHOUT PENETRATION (FOR QUALITY CLEANED, SANDED SUBSTRATES)

1. installation of multi-layered wooden floors with BAKIT FPK adhesive, use a knife with the toothing according to the dimensions of the component directly on the substrate.



OPTION WITH PENETRATION FOR COMPLICATED FOUNDATIONS

1. OKAMUL PU-V schnell polyurethane penetration is applied to the cleaned and sanded foundation in a thin layer, minimum drying time of 4 hours, maximum of 48 hours
2. Installation of multi-layered wooden flooring using BAKIT FPK adhesive, use a knife with the toothing according to the dimensions of the component. If it is necessary to level the heights using a self-levelling trowel, the OKAMUL PU-V schnell penetration must be recoated after approx. 60 minutes with OKATMOS EG 20 undiluted dispersion penetrant. This is followed by trowelling with a suitable self-levelling trowel and direct gluing of the multi-layered floor with BAKIT FPK adhesive).

Detailed information on the thinning, drying and consumption of each product can be found in the technical data sheet of each product. Check with the technician for the suitability of the composition for the specific covering and foundation.



SYSTEM PRODUCTS FOR AN INSTALLATION OF WOODEN FLOORS

PENETRATION:



Okatmos EG 20
dispersion penetration for absorbent and non-absorbent substrates for self-levelling screeds and repair compounds, can be diluted to absorbent substrates



Okamul PU-V schnell
polyurethane penetration for complicated foundations under adhesives BAKIT EK, BAKIT FPK, to be applied undiluted in a thin layer



BAKIT PV Universal
dispersion penetration for absorbent foundations under self-levelling trowels or adhesives BAKIT EK, BAKIT FPK, applied undiluted

FIXING AND REPAIRING SUBSTANCE:



Servoplan Ki 300
Cement quick-drying repair substance for filling uneven screeds, repairs of stair edges and platforms, after mixing with OKAMUL RSG PLUS suitable as a binder for old and new wooden substrates as a preparation for installation of coated coverings

SELF-LEVELLING CEMENT TROWEL FOR WOODEN FLOORS:



Servoplan P 200 PLUS,
trowel compound for levelling under massive and multi-layer wooden floors and also for underfloor heating in screed, from 3 to 30 mm in one working step

ADHESIVES FOR SOLID AND MULTI-LAYERED WOODEN FLOORS:



BAKIT EK
elastic, odourless, one-component adhesive for gluing solid wooden floors or multi-layered floors, also for flooring heating or certain types of exotic wood species



BAKIT FPK
elastic, odourless, one-component adhesive for gluing multi-layered wooden floors, also for underfloor heating

Why **eKO**WOOD®?

1.

OSMO oil and wax based coating system (Ekowood flooring)



- protects wood from inside and outside
- the oil penetrates the wood and the wax forms a protective wax surface with open pores
- the wood can breathe
- it can be renovated locally
- does not crack, does not peel, resistance to liquids, easy to maintain

Traditional oil-based coating system



- protects the wood from the inside
- does not form a film
- does not form any protective surface, difficult to maintain
- poor durability

Water-based varnishes and coating systems



- protects the wood only from the outside
- forms a film on the surface of the wood
- renovation is only possible after sanding the surface
- the paint flakes and peels off over time

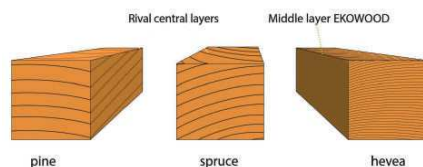
2.

HEVEA central layer

The central load-bearing layer of the floor is made of **HEVEA wood = the best solution**

Why?

Wood cutting of the most used wood species for the production of the central layer and their differences:



	spruce	pine	hevea	oak
Density kg/m ³	385	450	600	673
Brinell's hardness	1,2	1,9	3,5	3,7
Wood dilation in %				
Radially %	3,6	4,0	0,8	4,0
Tangentially %	7,8	7,7	1,2	7,5
Longitudinally %	0,5	0,5	0,5	0,5

A core with HEVEA, stable in all directions = **the best solution**



3.

Modern technology 5G lock system



5G
Bristle Tongue

Extremely fast, reliable and clean installation

4.

Design / Grading

- Surface finely brushed
- Slightly shrunken longitudinal and transverse sides, 4V
- Longitudinal and transverse joints protected with wax emulsion
- Suitable for underfloor heating as recommended
- Dimensions of boards: 13.5 x 192 mm, 13.5 x 195 mm, 13.5 x 136 mm
- Lengths of boards: 1820/2150 mm depending on availability
- Each package contains 6 rows of boards of which 2 rows are composed of shorter lengths
- RUSTICAL, CLASSIC and UNICA grading according to the pattern options

5.

Original skirtings in the shade of the floor

Dimensions:
19x40x2400
13x50x2400



6.

EKOWOOD floor finishing Osmo Polyx oil

Surface based on natural oils and waxes, that preserves the wood perfectly protected and natural!



You only need 2 products for a maintenance:



Ordinary maintenance



Intensive cleansing and revitalisation

EKOWOOD IN COMPARISM TO COMMONLY AVAILABLE WOODEN FLOORS WITH OILED SURFACE FINISH

BE THE JUDGE OF THE DIFFERENCES:

Tests conducted by AU-MEX on three-layered wooden floors in order to allow readers to compare Ekowood floors with competing oiled floors available in the trade network)



PIC. 1

The result of 2 hours of direct water exposure on a competing wood floor with an oiled surface.



PIC. 2

The result of 2 hours of direct water exposure on EKOWOOD floor with Osmo Polyx oil.



PIC. 3



PIC. 4

The result of 12 hours of exposure to the shoe polish on a wooden floor with an oiled surface.



PIC. 5

The result of 12 hours of exposure to the shoe polish on the EKOWOOD floor with Osmo Polyx oil - the wax protection does not let the polish in. It can be simply wiped off.



PIC. 5

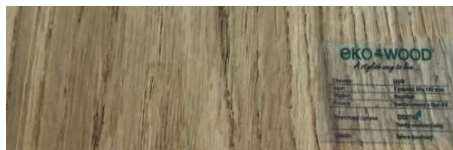
Comparism of both types of floors after 12 hours of exposure to shoe polish

- a) oiled floor
- b) EKOWOOD oil-waxed flooring



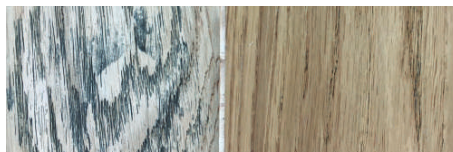
PIC. 6

Cleaning of dirty oiled floors after 12 hours using the professional maintenance product OSMO Wisch Fix. The impurities remained inside the pores of the wood and can be removed only by mechanical intervention (sanding).



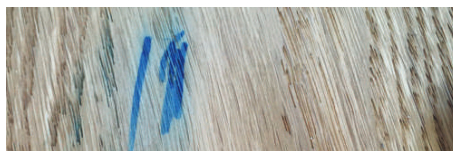
PIC. 7

Cleaning dirty EKOWOOD floor after 12 hours with the professional maintenance product OSMO Wisch Fix. The maintenance product did its job and the appearance of the wood surface is perfect once again.



PIC. 8

Oiled floor vs. EKOWOOD floor with Osmo Polyx oil finish. Compare result side by side.



PIC. 9

The result of the alcohol marker on oiled wooden floors.



PIC. 10

The result of the alcohol marker on EKOWOOD wood flooring with Osmo Polyx oil.

Result and comparism of both types of floors after cleaning them with professional maintenance product OSMO Wisch Fix and OSMO Wax Maintenance and Cleaner.

- a) oiled floor - the pollution remained inside the pores of the wood and can only be removed by mechanical intervention (sanding).
- b) EKOWOOD oil-waxed floor - the maintenance products have done their job and the appearance of the surface of the wood is perfect once again.



PIC. 11

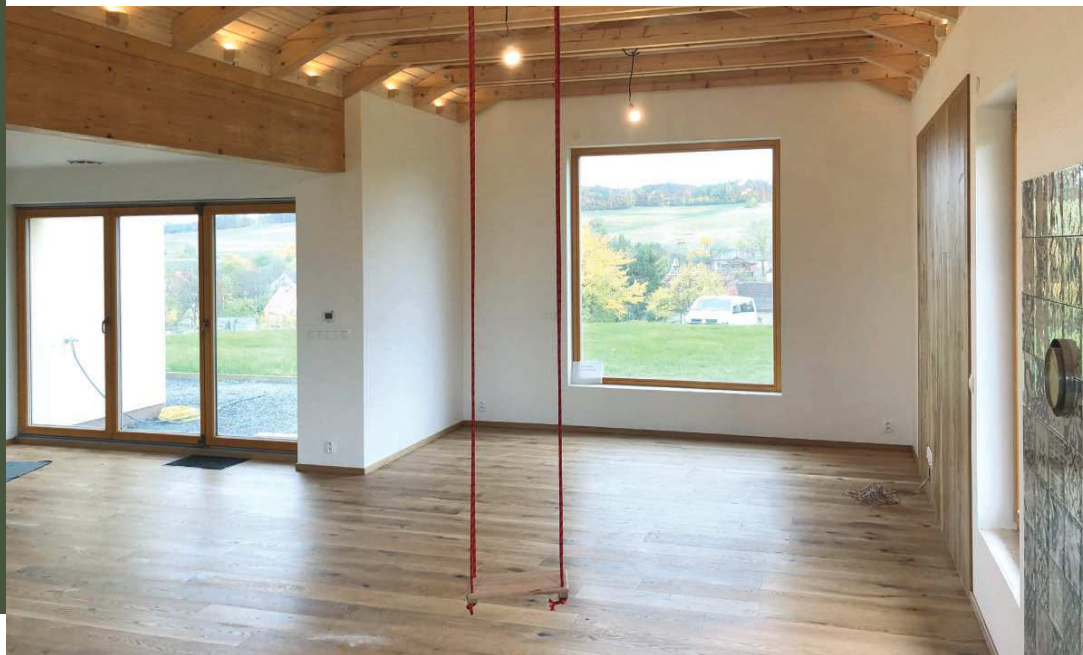


10 GOLDEN RULES

1. it is essential that the floor installer or user does the installation according to EKOWOOD's installation and maintenance instructions, in particular that all boards are checked for visible defects before installation
2. the user should take into account that despite the output grading control, the manufacturer cannot exclude small variations in grading of up to 5% of the total quantity towards a lower or higher grading
3. therefore, if the deviation in grading is not more than 5% of the delivered quantity, this 5% deviation cannot be reason for a complaint.
4. deviations in colour and texture cannot be ruled out when purchasing. Wood is a natural product with specific characteristics, which often has a very inconsistent character and properties.
5. in order to preserve its beauty, we recommend placing a quality mat in front of and behind the entrances to prevent scratches.
6. how often the floor should be mopped depends on its load. In private areas, a weekly rhythm is usually sufficient; in restaurants and other high-traffic areas, a daily wet mopping rhythm is recommended.
7. Wipe with a moderately wet mop. Mop dry afterwards.
8. do not use common dishwashing liquids, hot water, abrasive pastes or harsh chemicals.
9. dust, lint or pet hair can be removed with a vacuum cleaner or broom
10. wooden floors should be refreshed from time to time with suitable products, in the households this is usually after a few months depending on the intensity of use

„One product combining all the benefits“

**You've read it, you've seen it,
now check it out for yourself !**



eKO WOOD®

A stylish way to live...

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