

LED SMART OIL

PRODUCT DESCRIPTION

Clear or transparent one-coat industrial hardwax-oil for processing on roller application lines with LED dryers. Achieves suitable resistance with low application amounts. Produces an even colour and a harmonious appearance as well as a very matt surface.

RECOMMENDED USES

For the industrial coating of wood surfaces, e.g. flooring, stairs, furniture, etc.

TEST STANDARDS

The cured surface has the following properties:

DIN 68861-1A	No water spots and resistant to wine, beer, cola, coffee, tea, etc.
DIN 53160	Safe for humans, animals and plants (fast to saliva and perspiration)
EN 71.3	Suitable for children's toys
DIN 4102	Class B2 (normal combustibility)

INGREDIENTS

Based on acrylate-modified plant oils (sunflower, soybean and thistle oils), oligomers and polymer acrylates and waxes, paraffin, photoinitiators (drying agent) as well as water repellent additives. Iron oxide and organic pigments, titanium dioxide (white pigment). EU limit value for this product (cat. A/i): 500 g/l VOC (2010). This product contains max. 50 g/l VOC.

TECHNICAL DATA

Specific weight: 1.05-1.55 g/cm³
 Viscosity: 15-45 s DIN EN ISO 2431/6 mm
 Odour: faint/mild, odourless after drying
 Flash point: > 60 °C acc. DIN EN ISO 2719
 VOC content: < 50 g/l

APPLICATION AMOUNT

Approx. 10-15 g/m²

SIZES

5 kg, 10 kg
 (25 kg upon request)

SURFACE PREPARATION

The wood surface must be clean, dry and frost-free (moisture content max. 10 %).

Sanding for wooden floors:	P80-P150
Sanding for wooden furniture, doors etc.:	P180-P240

Alternatively

Soft brushed texture

The sanding procedure determines the quality of the final surface. Remove dust properly after sanding.

PRE-TREATMENT

No pre-treatment required for improved bonding
 The use of certain system products to achieve optical effects is possible.

PREPARATION

Osmo LED Smart Oil is ready to use. Do not thin. Stir well.
 The visual results depend on the wood species, the wood preparation and priming used as well as other factors. Therefore, trial applications as well as weighing out the correct application amounts are always required.

APPLICATION METHODS

Roller application

APPLICATION

Process only in artificial light. Do not expose to sunlight.
Optimum processing temperature 20°C
Line feed rate: 8-15 m/min.

Application:

Single roller

Apply with a foam rubber roller, approx. 5-15 g/m²

Reverse procedure

Apply with a foam rubber roller, approx. 20-35 g/m²

Haul-off with a smooth reverse roller, approx. 5-15 g/m²

Even out and surface optimization:
2-3 distribution brushes

Alternatively

Combination of pads and brushes

Curing:

LED lamp 395 nm
with 14 W/cm²

This recommended application is the standard Osmo application recommendation. Alternative application methods are possible. Please consult our application technologists

DRYING TIME

Directly following the respective drying method, the coated wood can be stacked or processed further (intermediate sanding).

LINE CLEANING

Osmo Industry Cleaner 8014 or Osmo Industry Cleaner 8030

COLOURS / SHEENS

Various colours available – all produced on order
We produce any technically viable colour according to your requirements.

The final colour varies depending on sanding procedure, application amounts and application procedure, among other factors.

STORAGE

6 months if can is kept dry, closed tightly and stored at temperatures between 5 °C and 35 °C. If thickened by frost, store 24-36 hours at room temperature before use.

SYSTEM PRODUCTS

Pre-treatment:
Pigment Stain
Reactive Stain

NOTES

Insufficient energy will not completely dry/cure the coating. Due to the multitude of different LED curing systems, optimal drying procedures must be determined individually. One coat is sufficient. To improve surface resistance or for more colour intensity, a second coat in the same colour or with LED Smart Oil Clear can, however, be applied (approx. 3-5 g/m²). Adhesion tests on the whole surface composition are always required. To perform these, carry out a trial application under practical conditions

INITIAL CARE

LED Smart Oil produces a simple yet ready-to-use surface.

Residential use: An initial care treatment is not necessary after installation.

Commercial use: Please observe the guidelines in our Polyx® Oil Maintenance Instructions.

CARE PRODUCTS

Routine cleaning:	Osmo Wash and Care
Intensive cleaning:	Osmo Intensive Cleaner
Routine care:	Osmo Liquid Wax Cleaner (residential use), Osmo Maintenance Oil (commercial use)
Surface refreshing:	Osmo Polyx®-Oil Original

HEALTH AND SAFETY

Please observe the information found on relevant safety datasheets as well as product label warnings. Use of compulsory personal protective equipment (PPE) – appropriate gloves and goggles – for handling the wet/uncured material is obligatory.

DISPOSAL

Disposal of leftover product, cleaning waste and empty packaging is to be carried out only by approved waste disposal contractors in accordance with relevant hazardous waste regulations. Detailed information on this can be obtained from the relevant safety datasheet.

This product information sheet serves solely as advice and non-binding information on high quality Osmo wood coatings for industrial processing on coating units. The details provided represent our state of knowledge at the time of completion. Only the latest issue of this product information sheet is valid. Users are always obligated to either test product suitability for the purposes desired or to seek appropriate consultation before starting the application.

The information above mentioned is provided to the best of our knowledge however without any liability