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## WOOD WAX FINISH

Transparent and intensive colour designs!



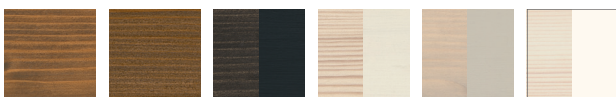
|               |                               |                   |             |                |               |
|---------------|-------------------------------|-------------------|-------------|----------------|---------------|
| 3101<br>Clear | 3102 Lightly<br>Steamed Beech | 3103<br>Light Oak | 3104<br>Red | 3105<br>Yellow | 3111<br>White |
|---------------|-------------------------------|-------------------|-------------|----------------|---------------|



|                      |                   |              |              |               |                    |
|----------------------|-------------------|--------------|--------------|---------------|--------------------|
| 3118<br>Granite Grey | 3119<br>Silk Grey | 3123<br>Pine | 3125<br>Blue | 3131<br>Green | 3132 Grey<br>Beige |
|----------------------|-------------------|--------------|--------------|---------------|--------------------|



|               |                |                  |                |               |             |
|---------------|----------------|------------------|----------------|---------------|-------------|
| 3136<br>Birch | 3137<br>Cherry | 3138<br>Mahogany | 3143<br>Cognac | 3161<br>Ebony | 3164<br>Oak |
|---------------|----------------|------------------|----------------|---------------|-------------|



|                |                     |               |              |                |                    |
|----------------|---------------------|---------------|--------------|----------------|--------------------|
| 3166<br>Walnut | 3168<br>Oak Antique | 3169<br>Black | 3172<br>Silk | 3181<br>Pebble | 3186<br>White Matt |
|----------------|---------------------|---------------|--------------|----------------|--------------------|



|              |
|--------------|
| 3188<br>Snow |
|--------------|



### PRODUCT DESCRIPTION

Transparent or intensive coloured wood finish that uniquely combines the advantages of natural oils and waxes in one product. Osmo Wood Wax Finish is stain-resistant, water-repellent and abrasion-resistant and results in a surface that is pleasant to the touch. In comparison to conventional finishes, the use of plant ingredients creates a more even colour and more harmonious appearance.

Simple application – without primer or intermediate sanding – this saves time and money.

Suitable for wood, microporous, will not crack, peel, flake or blister. Resistant to wine, beer, cola, tea, fruit juice, milk and water acc. German DIN 68861-1C – no water spots.

The dry finish is safe for humans, animals and plants (resistant to saliva and perspiration acc. German DIN 53160, suitable for children's toys acc. EN 71.3).

### RECOMMENDED USE

Osmo Wood Wax Finish is suitable for the protection and the decorative finishing of wood in indoor areas: wall panelling, mouldings and beams as well as doors. It is also suitable for edge-glued panels, chipboard

and MDF. Ideal as a coloured base coat for wooden flooring and for recoating darkened wood surfaces. Highly recommended for furniture and children's toys.

### INGREDIENTS

Based on natural plant oils and waxes (sunflower oil, soya oil, thistle oil, carnauba wax and candelilla wax), paraffin, iron oxide and organic pigments, titanium dioxide white pigment, siccatives (drying agents) and water-repelling additives. Dearomatized white spirit (benzene-free), EU limit value for this product (cat. A/e): 400 g/l VOC (2010). This product contains max. 400 g/l VOC. Detailed declaration of ingredients available upon request.

### TECHNICAL DATA

Specific weight: 0.90 -1.3 g/cm<sup>3</sup>  
 Viscosity: >70s DIN EN ISO 2431/3 mm, viscid  
 Odour: faint/mild, odourless after drying  
 Flash point: >61 °C, acc. DIN EN ISO 2719



## STORAGE

Up to 5 years and longer if can is kept dry and closed tightly. If thickened by frost, store for 24 - 36 hours at room temperature before use.

## SURFACE PREPARATION

The wood surface must be clean, dry and frost-free (max. 18% moisture content). Osmo Wood Wax Finish is ready to use. Do not thin. Stir well before use.

Clean old microporous stains thoroughly. Old paints and lacquers must be completely removed. As a general rule, wear a dust mask during sanding works. Fill small cracks, larger joints or holes in wood (with Osmo Wood Filler).

Sand wood surface carefully, begin with coarse sandpaper – final sanding work for flooring P120-150, for furniture P220-240.

Before applying oils, remove sanding dust from the surface by sweeping or vacuuming.

If possible, please apply the first coat to all sides before installation.

The finished surface is influenced by several factors, including the condition of the wood. Therefore, a trial application is always required, especially for unfamiliar surfaces.

## METHODS OF APPLICATION

Transparent colour (one coat): with Osmo Flat Brush, Oil Finish Applicator Fleece (Hand Pad Holder) or Microfibre Roller, apply very thinly to the clean and dry wood surface along the wood grain and spread well. For a more subtle stained effect, apply thinly with a lint-free cloth and within 20 minutes, wipe away cleanly and evenly. Ventilate well while drying.

Intensive colour (two coats): with Osmo Flat Brush or Microfibre Roller, apply very thinly to the clean and dry wood surface along the wood grain and spread well. Ventilate well while drying. Apply the second coat - also thinly.

Note: Larger areas can also be coated by using a scraper. Afterwards rub in with a white pad.

Important: For mechanically loaded areas, e.g. flooring, we recommend max. one coat and generally a thin top coat with clear Osmo Polyx®-Oil Original. For white flooring, a top coat with lightly white pigmented Osmo Polyx®-Oil Tints 3040 White.

In general, intensive colour applications (two coloured coats) are not recommended for flooring due to the risk of applying too much product.

## CLEANING OF TOOLS

With Osmo Brush Cleaner (free of aromatic compounds).

## DRYING TIME

Approx. 24 hours (normal climatic conditions, 23 °C/ 50 % rel. humidity). Lower temperatures and/or higher air humidity can increase the drying time. Ventilate well while drying.

## COVERAGE

1 litre covers approx. 24 m<sup>2</sup> with one coat.

Coverage depends significantly on the condition of the wood. All information refers to smooth and planed/sanded surfaces. Other surfaces may lead to differences in coverage.

## NOTE

Applying the product too generously and insufficient ventilation lead to delays in drying time and the typical smell of oil.

Choose colour tones that match the natural tone of wood or a darker colour tone (trial application).

Oils enhance the natural colour tone of wood (permanent wet effect).

For dark and extractive-rich hardwoods (e.g. Wenge, Mahogany, Merbau etc.), we recommend applying Osmo Wood Wax Finish Clear Extra Thin. Trial application is recommended.

Caution: Apply max. one coat thinly to cabinet interiors and drawers with a cloth.

## CAUTION

Keep out of the reach of children. Do not get in eyes, on skin, or on clothing. If medical advice is needed, have product container or label at hand. Use only outdoors or in a well-ventilated area. Warning: Wash out any used cloth impregnated with this product immediately after use or store in an airtight container (danger of self-ignition). The dried finish is classified as B2 (normal flammability) according to DIN 4102 regulations. Safety data sheet available on request.

## DISPOSAL

Dispose of leftover product and completely emptied packaging according to local official guidelines (waste code number 08 01 11). Only completely emptied cans can be recycled.



## COLOUR TONES

- 3101 Clear
- 3102 Lightly Steamed Beech
- 3103 Light Oak
- 3104 Red
- 3105 Yellow
- 3111 White
- 3118 Granite Grey
- 3119 Silk Grey
- 3123 Pine
- 3125 Blue
- 3131 Green
- 3132 Grey Beige
- 3136 Birch
- 3137 Cherry
- 3138 Mahogany
- 3143 Cognac
- 3161 Ebony
- 3164 Oak
- 3166 Walnut
- 3168 Oak Antique
- 3169 Black
- 3172 Silk
- 3181 Pebble
- 3186 White Matt
- 3188 Snow

## CAN SIZES (DEPENDING ON PRODUCT)

0.125 L; 0.375 L; 0.75 L; 2.50 L; 25 L

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

Version 02/17

**Material Safety Data Sheets**  
 according to 1907/2006/EC, Article 31

Printing date 23.05.2018

Version number 3

Revision: 09.05.2018

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

**Trade name:** **Osmo Wood Wax Finish**

**Article number:** 3101, 3102, 3103, 3104, 3105, 3111, 3115, 3116, 3118, 3119, 3123, 3125, 3131, 3132, 3136, 3137, 3138, 3143, 3161, 3164, 3165, 3166, 3168, 3169, 3172, 3181, 3186, 3188

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**advised against** No further relevant information available.

#### Application of the substance / the mixture

Coating compound/ Surface coating/ paint

#### 1.3 Details of the supplier of the safety data sheet

**Manufacturer/Supplier:** Osmo Holz und Color GmbH & Co. KG  
 Affhüppen Esch 12  
 D-48231 Warendorf

#### Further information obtainable from:

Product safety department  
 Phone: +49 (0) 251 / 692 - 188  
 Fax: +49 (0) 251 / 692 - 462  
 e-mail: helmut.starp@osmo.de

#### 1.4 Emergency telephone number:

emergency phone no. Berlin (24h): +49 (0) 30 / 30686 790 advisory service in German and English

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification according to

**Regulation (EC) No 1272/2008** The product is not classified, according to the CLP regulation.

#### 2.2 Label elements

##### Labelling according to Regulation

**(EC) No 1272/2008** Void

**Hazard pictograms** Void

**Signal word** Void

**Hazard statements** Void

##### Precautionary statements

Although this product is not subject to identification regulations, we recommend that the safety suggestions are observed.

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

P262 Do not get in eyes, on skin, or on clothing.

P271 Use only outdoors or in a well-ventilated area.

##### Additional information:

Observe the general safety regulations when handling chemicals.

Always wear a dust mask when sanding.

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**Trade name: Osmo Wood Wax Finish**

(Contd. of page 1)

Safety data sheet available on request.

**Information concerning particular hazards for human and environment:**

Warning:

Wash out any used cloth impregnated with this product immediately after use or store in an airtight container (danger of self-ignition)

**2.3 Other hazards**

**Results of PBT and vPvB assessment**

**PBT:** Not applicable.


**vPvB:** Not applicable.

**SECTION 3: Composition/information on ingredients**

**3.2 Mixtures**

**Description:** Mixture of substances listed below with nonhazardous additions.

**Dangerous components:**

|                            |                                 |   |        |
|----------------------------|---------------------------------|---|--------|
| EC number: 918-481-9       | aliphatic hydrocarbons, C10-C13 |  Asp. Tox. 1, H304 | 25-50% |
| Index number: 649-327-00-6 |                                 |   |        |
| Reg.nr.: 01-2119457273-39  |                                 |   |        |

**Additional information:** For the wording of the listed hazard phrases refer to section 16.

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

**General information:** Immediately remove any clothing soiled by the product.

**After inhalation:** Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

**After skin contact:** Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

**After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

**After swallowing:** If swallowed, seek medical advice immediately and show this container or label.

**4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

**4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

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**SECTION 5: Firefighting measures****5.1 Extinguishing media**

**Suitable extinguishing agents:** CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**For safety reasons unsuitable extinguishing agents:**

Water with full jet

**5.2 Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.

**5.3 Advice for firefighters****Protective equipment:**

Mouth respiratory protective device.

**Additional information**

Cool endangered receptacles with water spray.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Keep away from ignition sources.

Ensure adequate ventilation

**6.2 Environmental precautions:**

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

**6.3 Methods and material for containment and cleaning up:**

Warm water and cleansing agent

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).

**6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

Keep receptacles tightly sealed.

Keep away from heat and direct sunlight.

Use only in well ventilated areas.

Prevent formation of aerosols.

**Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

**7.2 Conditions for safe storage, including any incompatibilities****Storage:****Requirements to be met by****storerooms and receptacles:**

Store in a cool location.

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**Information about storage in one common storage facility:** Store only in the original receptacle.  
 Do not store together with alkalis (caustic solutions).  
 Do not store together with oxidising and acidic materials.

**Further information about storage conditions:** Keep container tightly sealed.  
 Store receptacle in a well ventilated area.  
 Protect from heat and direct sunlight.

**Storage class:** 10

**7.3 Specific end use(s)** No further relevant information available.

**SECTION 8: Exposure controls/personal protection**

**Additional information about design of technical facilities:** No further data; see item 7.

**8.1 Control parameters****Ingredients with limit values that require monitoring at the workplace:****aliphatic hydrocarbons, C10-C13**

|           |  |
|-----------|--|
| TWA (8 H) | Long-term value: 1,000 mg/m <sup>3</sup> , 150 ppm ppm<br>Source: UK SIA |
|-----------|--|

**Additional information:** The lists valid during the making were used as basis.

**8.2 Exposure controls****Personal protective equipment:****General protective and hygienic measures:**

Immediately remove all soiled and contaminated clothing  
 Avoid contact with the eyes and skin.  
 Do not eat, drink, smoke or sniff while working.  
 Do not carry product impregnated cleaning cloths in trouser pockets.

**Respiratory protection:**

Not necessary if room is well-ventilated.  
 Use suitable respiratory protective device only when aerosol or mist is formed.  
 Short term filter device:  
 Gas filter EN 14387 Type A (organic gas / vapor (boiling point > 65 ° C)).

**Protection of hands:**

Protective gloves  
 The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
 Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**Material of gloves**

Nitrile rubber, NBR

**Penetration time of glove material** The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

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*For the permanent contact gloves  
 made of the following materials  
 are suitable:*

Nitrile rubber, NBR  
 Recommended thickness of the material:  $\geq 0.4$  mm

*As protection from splashes  
 gloves made of the following  
 materials are suitable:*

Nitrile rubber, NBR

*Eye protection:*

Goggles recommended during refilling

*Body protection:*

Protective work clothing

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties****General Information****Appearance:**

**Form:** Fluid  
**Colour:** According to product specification  
**Odour:** Mild

**Change in condition**

**Melting point/freezing point:** Undetermined.  
**Initial boiling point and boiling range:**  $> 180$  °C (DIN 51751)

**Flash point:**  $\geq 61$  °C (DIN EN ISO 2719)

**Ignition temperature:** 240 °C

**Auto-ignition temperature:** Product is not selfigniting.

**Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

**Explosion limits:**

**Lower:** 0.7 Vol %  
**Upper:** 6.0 Vol %

**Vapour pressure:** 3 hPa [20°C]

**Density at 20 °C:** 0.90 - 1.4 g/cm<sup>3</sup> (DIN 51757)

**Solubility in / Miscibility with  
 water:**

Not miscible or difficult to mix.

**Viscosity:**

**Dynamic:** Not determined.  
**Kinematic at 20 °C:**  $> 40$  s (DIN 53211/4)  
 $> 21$  mm<sup>2</sup>/s (40°C)

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**Solvent content:****VOC (EC)**

&lt; 400 g/l (VOC-max. Cat A/e (2010) = 400 g/l)

**9.2 Other information**

No further relevant information available.

**SECTION 10: Stability and reactivity****10.1 Reactivity**

No further relevant information available.

**10.2 Chemical stability****Thermal decomposition /****conditions to be avoided:**

No decomposition if used and stored according to specifications.

**10.3 Possibility of hazardous reactions**

Reacts with fabric soaked in the product (e.g. cleaning wool).

Reacts with acids, alkalis and oxidising agents.

**10.4 Conditions to avoid**

No further relevant information available.

**10.5 Incompatible materials:**

No further relevant information available.

**10.6 Hazardous decomposition products:**

Carbon monoxide and carbon dioxide

Nitrogen oxides (NO<sub>x</sub>)**Additional information:**

Warning:

Wash out any used cloth impregnated with this product immediately after use or store in an airtight container (danger of self-ignition)

**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity**

Based on available data, the classification criteria are not met.

**LD/LC50 values relevant for classification:****aliphatic hydrocarbons, C10-C13**

Oral LD50 &gt;5,000 mg/kg (rat) (OECD 401)

Dermal LD50 &gt;5,000 mg/kg (rat) (OECD 402)

Inhalative LC50 / 4h 21 mg/l (rat) (OECD 403)

**13463-67-7 titanium dioxide**

Oral LD50 &gt;20,000 mg/kg (rat)

Dermal LD50 &gt;10,000 mg/kg (rabbit)

**Primary irritant effect:****Skin corrosion/irritation**

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.

**Serious eye damage/irritation**

Based on available data, the classification criteria are not met.

**Respiratory or skin sensitisation**

Based on available data, the classification criteria are not met.

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**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

|                               |   |
|-------------------------------|---|
| <b>Germ cell mutagenicity</b> | Based on available data, the classification criteria are not met. |
| <b>Carcinogenicity</b>        | Based on available data, the classification criteria are not met. |
| <b>Reproductive toxicity</b>  | Based on available data, the classification criteria are not met. |
| <b>STOT-single exposure</b>   | Based on available data, the classification criteria are not met. |
| <b>STOT-repeated exposure</b> | Based on available data, the classification criteria are not met. |
| <b>Aspiration hazard</b>      | Based on available data, the classification criteria are not met. |

**SECTION 12: Ecological information****12.1 Toxicity****Aquatic toxicity:****aliphatic hydrocarbons, C10-C13**

|                      |                                  |
|----------------------|----------------------------------|
| EC50 / 48h           | >1,000 mg/l (daphnia) (OECD 202) |
| EC50/ 72h            | >1,000 mg/l (algae) (OECD 201)   |
| LC50 / 96h           | >1,000 mg/l (fish) (OECD 203)    |
| Biolog. Abbaubarkeit | % (leicht abbaubar)              |

**12.2 Persistence and degradability** No further relevant information available.**12.3 Bioaccumulative potential** No further relevant information available.**12.4 Mobility in soil** No further relevant information available.**Additional ecological information:****General notes:** Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water**12.5 Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**12.6 Other adverse effects** No further relevant information available.**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Recommendation** Must not be disposed together with household garbage. Do not allow product to reach sewage system.**European waste catalogue**

|           |   |
|-----------|---|
| 08 01 11* | waste paint and varnish containing organic solvents or other dangerous substances |
| 15 01 10* | packaging containing residues of or contaminated by dangerous substances          |

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**Uncleaned packaging:****Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

|  |  |
|--|--|
| <b>14.1 UN-Number</b><br>ADR, ADN, IMDG, IATA                                  | Void   |
| <b>14.2 UN proper shipping name</b><br>ADR<br>ADN, IMDG, IATA                  | Void<br>Void   |
| <b>14.3 Transport hazard class(es)</b><br>ADR, ADN, IMDG, IATA<br>Class        | Void   |
| <b>14.4 Packing group</b><br>ADR, IMDG, IATA                                   | Void   |
| <b>14.5 Environmental hazards:</b><br>Marine pollutant:                        | No   |
| <b>14.6 Special precautions for user</b>                                       | Not applicable.                                      |
| <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b> | Not applicable.                                      |
| <b>Transport/Additional information:</b>                                       | Not dangerous according to the above specifications. |
| <b>UN "Model Regulation":</b>  | Void   |

### SECTION 15: Regulatory information

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

**National regulations:**

**VOC (EC)** < 400 g/l (VOC-max. Cat A/e (2010) = 400 g/l)

**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Relevant phrases** H304 May be fatal if swallowed and enters airways.

**Department issuing SDS:** product safety department

**Contact:** Hr. Dr. Starp

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**Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
VOC: Volatile Organic Compounds (USA, EU)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Asp. Tox. 1: Aspiration hazard – Category 1

GB