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POLYX®-OIL ANTI-SLIP/ ANTI-SLIP EXTRA

Ideal for wooden flooring for which higher slip resistance is required.



3088 Clear
Semi-Matt/
Anti-Slip (R9)



3089 Clear
Satin/Anti-Slip
Extra (R11)



PRODUCT DESCRIPTION

Clear wood finish for wooden flooring in indoor areas for which a higher slip resistance is required. Osmo Polyx®-Oil Anti-Slip uniquely combines the advantages of natural oils and waxes in one product. It is stain-resistant, water-repellent and abrasion-resistant. 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 surface will not crack, peel, flake or blister. Resistant to wine, beer, cola, coffee, tea, fruit juice, milk and water acc. German DIN 68861-1A – 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 Polyx®-Oil Anti-Slip is ideal for the protection of all wooden floors for which higher slip resistance is required (commercial/public interiors), such as solid wood, plank, strip, OSB and cork flooring.

INGREDIENTS

Based on natural plant oils and waxes (sunflower oil, soya oil, thistle oil, carnauba wax and candelilla wax), paraffin, siccatives (drying agents) and water-repellent and non-slip additives. Dearomatized white spirit (benzene-free). EU limit value for this product (cat. A/i): 500 g/l VOC (2010). This product contains max. 500 g/l VOC. Detailed declaration of ingredients available upon request.

TECHNICAL DATA

Specific gravity: 0.88-0.91 g/cm³
Viscosity: thixotropic, viscous/creamy
Odour: faint/mild, after drying odourless
Flash point: >60°C acc. DIN 53213

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

Wood surface must be clean, dry and frost-free (moisture content max. 18%).

Osmo Polyx®-Oil Anti-Slip 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 surfaces carefully. Begin with coarse sandpaper – final sanding work for flooring P120-150. Before oiling the surface, remove sanding dust with a broom or vacuum cleaner.

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

With Osmo Flat Brush, Floor Brush or Microfibre Roller, apply thinly along the wood grain and spread well.

Allow to dry for approx. 8-10 hours under good ventilation.

After drying, quickly apply a second coat also thinly. For renovation works on previously oiled surfaces, one coat applied to the clean and dry surface is usually sufficient.

Note: Osmo Polyx®-Oil Anti-Slip cannot be evened out with a single disc machine.



CLEANING OF TOOLS

With Osmo Brush Cleaner (free of aromatic compounds).

DRYING TIME

Approx. 8-10 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. After 2-3 weeks, surface is fully cured.

COVERAGE

1 litre covers approx. 24 m² 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

Oils enhance the natural tone of wood (permanent wet effect). Applying the product too generously and insufficient ventilation lead to delays in drying time.

Polyx[®]-Oil Anti-Slip (3088) is distinguished by its satin smooth, yet non-slip surface. With Polyx[®]-Oil Anti-Slip (3088), a slip resistance class R9 is achieved.

Polyx[®]-Oil Anti-Slip Extra (3089) is distinguished by its extremely high surface grip. Special additives provide the dried coating a structure that enables a slip resistance class R11.

For dark and extractive-rich hardwoods (e.g. Wenge, Merbau, Jatoba etc.), we recommend using Osmo Wood Wax Finish Clear Extra Thin or Osmo Polyx[®]-Oil 2K PURE. A trial application is recommended. Wood surfaces treated with Osmo Polyx[®]-Oil Anti-Slip are easy to maintain. Remove debris with a broom or a vacuum cleaner. To clean, add Osmo Wash and Care concentrate to mop water and clean the surface with a damp (not wet!) mop. To refresh surfaces, use Osmo Maintenance Oil when necessary.

CAUTION

Keep out of 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

3088 Clear Semi-Matt/Anti-Slip (R9)
3089 Clear Satin/Anti-Slip Extra (R11)

CAN SIZES

0.75 L; 2.50 L; 10 L; 25 L

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

Version 02/17

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

1.1 Product identifier

Trade name: **Osmo Hardwax-Oil Anti-Slip**

Article number: 3088, 3089

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
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.

Safety data sheet available on request.

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

Printing date 23.05.2018

Version number 6

Revision: 23.05.2018

Trade name: Osmo Hardwax-Oil Anti-Slip


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2.3 Other hazards

Warning:

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

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:**

Take affected persons out into the fresh air.

Immediately remove any clothing soiled by the product.

After inhalation:

Supply fresh air; consult doctor in case of complaints.

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

Dizziness

Headache

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures**5.1 Extinguishing media****Suitable extinguishing agents:**

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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:**

No special measures required.

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Material Safety Data Sheets
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Revision: 23.05.2018

Trade name: Osmo Hardwax-Oil Anti-Slip

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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

Ensure adequate ventilation
 Keep away from ignition sources.

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

No dangerous substances are released.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well ventilated areas.
 Keep receptacles tightly sealed.
 No special measures required.

Information about fire - and explosion protection:

No special measures required.

7.2 Conditions for safe storage, including any incompatibilities
Storage:

Requirements to be met by storerooms and receptacles:

Store only in the original receptacle.

Information about storage in one common storage facility:

Not required.

Further information about storage conditions:

None.

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.

(Contd. on page 4)

Trade name: Osmo Hardwax-Oil Anti-Slip

(Contd. of page 3)

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 ³ , 150 ppm ppm Source: UK SIA
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Additional information: The lists valid during the making were used as basis.

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

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

Respiratory protection:

Use suitable respiratory protective device only when aerosol or mist is formed.
Not necessary if room is well-ventilated.
Short term filter device:

Protection of hands:

Gas filter EN 14387 Type A (organic gas / vapor (boiling point > 65 ° C)).
To avoid skin problems reduce the wearing of gloves to the required minimum.
Protective gloves

Material of 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

Penetration time of glove material

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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

Nitrile rubber, NBR

For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

Nitrile rubber, NBR

Eye protection:

Goggles recommended during refilling

Body protection:

Protective work clothing

(Contd. on page 5)

Trade name: Osmo Hardwax-Oil Anti-Slip

(Contd. of page 4)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form:	Viscous
Colour:	Yellowish
Odour:	Mild

Change in condition

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	> 144 °C

Flash point: > 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 at 20 °C: 1 hPa

Density at 20 °C: 0.90-0.95 g/cm³ (DIN 51757)

Solubility in / Miscibility with water:

Not miscible or difficult to mix.

Viscosity:

Dynamic:	Not determined.
Kinematic at 20 °C:	30-34 s (DIN 53211/4mm)

Solvent content:

VOC (EC) < 500 g/l (VOC-max. Cat A/i (2010) = 500 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 according to specifications.

10.3 Possibility of hazardous reactions

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

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Trade name: Osmo Hardwax-Oil Anti-Slip

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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_x)

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	> 5000 mg/kg (rat) (OECD 401)
Dermal	LD50	> 5000 mg/kg (rat) (OECD 402)
Inhalative	LC50 / 4h	21 mg/l (rat) (OECD 403)

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.

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

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

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

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

STOT-single exposure Based on available data, the classification criteria are not met.

STOT-repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard 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	> 1000 mg/l (daphnia) (OECD 202)
EC50/ 72h	> 1000 mg/l (algae) (OECD 201)
LC50 / 96h	> 1000 mg/l (fish) (OECD 203)
Biolog. Abbaubarkeit	(leicht abbaubar)

12.2 Persistence and degradability No further relevant information available.

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Trade name: Osmo Hardwax-Oil Anti-Slip

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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

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN-Number

ADR, ADN, IMDG, IATA Void

14.2 UN proper shipping name

ADR, ADN, IMDG, IATA Void

14.3 Transport hazard class(es)

ADR, ADN, IMDG, IATA

Class Void

14.4 Packing group

ADR, IMDG, IATA Void

14.5 Environmental hazards:

Marine pollutant: No

14.6 Special precautions for user

Not applicable.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

(Contd. on page 8)

Trade name: Osmo Hardwax-Oil Anti-Slip

(Contd. of page 7)

UN "Model Regulation":

Void

SECTION 15: Regulatory information

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

National regulations:

GISBAU-Code

GISCODE: Ö60

VOC (EC)

< 500 g/l (VOC-max. = 500 g/l (2010 A/i))

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

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

** Data compared to the previous version altered.*

Osmo Holz und Color GmbH & Co. KG
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Dresden, 23 June 2017
70-em/pe

Test Report Order No. 2717298

Client: Osmo Holz und Color GmbH & Co. KG
Lütkenbecker Weg 12
48155 Münster

Date of order: 01 June 2017

Order: Determination of the slip resistance according to BS 7976-2:2002
(under dry and wet conditions) - Pendulum test

Contractor: EPH – Laboratory Surface Testing

Engineer in charge: Dipl.-Ing. (FH) M. Peter



Dr.-Ing. Rico Emmler

Head of Laboratory Surface Testing

The test report contains 3 pages. Any duplication, even in part, requires written permission of EPH. These test results are exclusively related to the tested material.

1 Task

The laboratory Entwicklungs- und Prüflabor Holztechnologie GmbH (EPH) was ordered by Osmo Holz und Color GmbH & Co. KG in Münster to carry out testing of the slip resistance according to BS 7976-2:2002 (under dry and wet conditions).

2 Material

For the test, the client has sent oak parquet samples with following coating (entrance at the EPH laboratory 15 June 2017):

3089 Osmo POLYX®-Oil Clear Satin/Anti Slip EXTRA

3 Determination of the slip resistance according to BS 7976-2:2002 (under dry and wet conditions) - Pendulum test

The determination of the slip resistance was carried out according to BS 7976-2:2002 by pendulum test under dry and wet conditions with a Portable Skid Resistance Tester SRT 5800 (Fig. 1) with the rubber slider 96 (4S) on 10 samples. For each sample 8 tests were done. The test was carried out under laboratory conditions at 23 °C and 50 % relative humidity.



Fig. 1: Portable Skid Resistance Tester SRT 5800

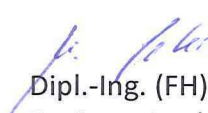
4 Results

Test pieces	Pendulum value PTV according to BS 7976:2002 <i>under dry conditions</i>									
	PTV _i (i = 1 ... 8)								PTV mean value (PTV 4 – PTV 8)	
	1	52	52	52	51	50	50	50	50	50
2	52	52	52	52	51	51	51	51	51	
3	54	54	54	54	53	53	53	53	53	
4	54	54	54	54	53	53	53	52	53	
5	54	54	54	54	54	53	53	53	53	
6	54	54	54	53	53	53	53	53	53	
7	54	53	53	53	53	52	52	52	52	
8	54	54	54	54	54	53	53	53	53	
9	54	54	54	54	53	53	53	53	53	
10	54	54	54	53	53	53	53	53	53	

Test pieces	Pendulum value PTV according to BS 7976:2002 <i>under wet conditions</i>									
	PTV _i (i = 1 ... 8)								PTV mean value (PTV 4 – PTV 8)	
	1	53	53	53	53	53	53	53	53	50
2	53	53	53	53	53	53	53	53	53	
3	53	53	53	53	53	53	53	53	51	
4	53	53	53	53	53	53	53	53	51	
5	53	53	53	53	53	53	53	53	50	
6	53	53	53	53	53	53	53	53	51	
7	53	53	53	53	53	53	53	53	51	
8	53	53	53	53	53	53	53	53	52	
9	53	53	53	53	53	53	53	53	50	
10	53	53	53	53	53	53	53	53	51	

Table 1: Slip potential classification, based on pendulum test values (PTV)

	PTV
High slip potential	0 - 24
Moderate slip potential	25 - 35
Low slip potential	36 +


Dipl.-Ing. (FH) M. Peter
Engineer in charge