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For further information please either give us a call or visit the manufacturer's website.

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All information is correct at the time of download from the manufacturer.

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Registered in England under Company No: 03746590 VAT No: 765 9995 45

WAKOL MS 260 Parquet Adhesive, firm-elastic

Technical Information

Area of application

Firm-elastic, 1 component parquet adhesive for laying

- 10 mm solid wood lam parquet flooring according to DIN EN 13227
- mosaic parquet according to DIN EN 13488
- on-edge lamella parquet according to DIN EN 14761, min. 16 mm thick, max. 200 mm in length
- strip parquet according to DIN EN 13226
- multi-layer parquet according to DIN EN 13489
- solid wood planks according to DIN EN 13226 and DIN EN 13990 (up to max. 18 cm in width, oak up to max. 20 cm in width)
- wood-block RE / WE according to DIN 68702
- cork flooring (planar) i.a.w. ISO 3813 or DIN EN 12104
- cork flooring with HDF / MDF intermediate layer and cork stabilising layer

on absorbent and non-absorbent subfloors indoors.

In connection with WAKOL Special Spatula 5 or WAKOL Speciality Trowel 5 suitable as an adhesive with an integrated moisture barrier exclusively for types of parquet with tongue and groove joint on unheated cement screeds up to 4 CM % or 85 % corresponding relative humidity.

Special properties



1)



2)



3)



4)



5)

- solvent-free according to the definition of TRGS 610
- complies with DIN EN 14293
- very high final strength
- suitable for underfloor heating
- water-free – no wood swelling
- risk of cracks minimised

1) based on the criteria of GEV (Association for Emission-controlled Laying Materials), classified as EMICODE EC1 PLUS R: very low in emissions

2) permitted as marine equipment product by the See-Berufsgenossenschaft Hamburg, Module B and Module D. Declaration of conformity, see www.wakol.de.

3) Connected Systems System guarantee with Loba

4) Emissions-certified construction product i.a.w. DIBt principles: Wakol GmbH, 66954 Pirmasens

5) Emission class according to French law

Technical data

| | |
|----------------------|---|
| Raw material base: | silane-modified Polymer |
| Airing time: | none |
| Open time: | approx. 40 minutes |
| Load bearing: | approx. 24 hrs. |
| Surface treatment: | at the earliest after 24 hrs. |
| Cleaning agent: | WAKOL RT 5960 Cleaning Cloth, before adhesive dries |
| Storage time: | 12 months at room temperature |
| Storage temperature: | not sensitive to frost |
| GISCODE: | RS10 |
| EMICODE: | EC1 PLUS R |

Application and consumption⁶⁾:

| | | |
|-------------------------|------------------------------|---|
| TKB A2 | 400 - 450 g/m ² | Cork floorings |
| TKB B3 | 800 - 1000 g/m ² | Mosaic and small-sized ready-to-lay parquet |
| TKB B5 | 700 - 900 g/m ² | Large-sized ready-to-lay parquet, cork floorings on supports |
| TKB B11 | 1000 - 1200 g/m ² | Lam, on-edge lamella, strip floorings, small-sized ready-to-lay parquet and wood-block paving |
| TKB B13 | 1100 - 1300 g/m ² | Large-sized strip floorings and ready-to-lay parquet, as well as solid wood planks |
| TKB B15 | 1400 - 1500 g/m ² | Large-sized wood planks |
| WAKOL Special Spatula 5 | 1700 - 1800 g/m ² | Types of parquet with tongue and groove joint up to max. 4 CM % or 85 % corresponding relative humidity |

6) Consumption is dependent on surface structure and absorbability of subfloor

Subfloors

The subfloor and the room climate conditions must satisfy the requirements of DIN 18356. Subfloors must be permanently dry, firm, level and free of cracks, contamination and substances which hinder bonding.

Calcium sulfate concrete must be pretreated mechanically and vacuumed according to the instructions of the manufacturer or among the relevant norms. If the composition floor is free of dust, the parquet flooring may be bonded directly with WAKOL MS 260 Parquet Adhesive, firm-elastic. If a precoating is necessary, e.g. for cast asphalt, only use WAKOL PU 280 Polyurethane Primer. Observe the drying times of the primer.

On unheated cement screeds up to 4 CM % or 85 % corresponding relative humidity, WAKOL MS 260 Parquet Adhesive, firm-elastic can be used as moisture barrier. In this application, only the above-mentioned types of Parquet with tongue and groove joint have to be laid.

For laying flat-lying cork floorings the subfloor must be level. Concrete subfloors must be levelled with appropriated cement-based Wakol levelling compounds.

Usage

Using a notched trowel, apply uniformly on the subfloor, avoiding adhesive pools.

Immediately insert the parquet flooring and press down firmly. Ensure that the underside of each wooden element is sufficiently coated with adhesive.

Fit cork floorings and press down with a manual roller. After 60 and 120 minutes, again press down the sections laid with a floor roller. Lay non planar cork flooring with WAKOL D 3540 Cork Contact Adhesive.

Immediately after using, clean tools with WAKOL RT 5960 Cleaning cloths. After hardening, WAKOL MS 260 Parquet Adhesive, firm-elastic can be removed only mechanically.

Important

Do not use at temperatures below +15 °C. In cold weather, warm up WAKOL MS 260 Parquet Adhesive, firm-elastic in due time in heated room. All information is based on approx. 20 °C and 65 % relative air humidity.

Do not use WAKOL MS 260 Parquet Adhesive, firm-elastic directly on cast asphalt, use a precoat before.

Solid wood lam parquet flooring must not exceed a thickness/width ratio of 1:5.

For ship construction the usage is limited to a maximum application amount of 720 g/m².

We guarantee the uniform high quality of our products. All data is based on tests and many years of practical experience and refers to standardised conditions. The variety of materials used and the different construction site conditions, which lie beyond our control, preclude any claims based on this data. We therefore recommend making sufficient trials. Accompanying flooring manufacturer's instructions and the currently applicable codes must be observed. We gladly provide technical advice.

The product data sheets can be found in their latest version at www.wakol.com.

This Technical Information of 15.04.2015 supersedes all previous versions.

Material safety data sheet
according to 1907/2006/EC, Article 31

Printing date 29.06.2017

Version number 5

Revision: 29.06.2017

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

- **1.1 Product identifier**
- **Trade name:** *WAKOL MS 260 Parquet Adhesive, firm-elastic*
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** *Adhesives*
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
*WAKOL GmbH
Bottenbacher Str. 30
D-66954 Pirmasens
info@wakol.com
+49 6331 8001 0*
- **Informing department:**
*Product safety department.
msds@wakol.de*
- **1.4 Emergency telephone number:**
*Emergency CONTACT (24-Hour-Number):
GBK GmbH +49 (0)6132-84463*

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*
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** *Not applicable.*
- **vPvB:** *Not applicable.*

SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**
- **Description:** *Adhesive*
- **Dangerous components:** *Void*
- **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** *No special measures required.*
- **After inhalation** *Supply fresh air; consult doctor in case of complaints.*
- **After skin contact** *Clean with water and soap. If possible, also wash with polyethylene glycol 400.*
- **After eye contact**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing** *Do not induce vomiting; call for medical help immediately.*
- **4.2 Most important symptoms and effects, both acute and delayed** *No further relevant information available.*

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- **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.
Use fire extinguishing methods suitable to surrounding conditions.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Ensure adequate ventilation
- **6.2 Environmental precautions:** No special measures required.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
- **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** Use only in well ventilated areas.
- **Information about protection against explosions and fires:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Protect from humidity and water.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **8.1 Control parameters**
- **Components with critical values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:**
The lists valid during the making were used as basis.
See Section 10.
- **8.2 Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**
The usual precautionary measures are to be adhered to when handling chemicals.

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- Wash hands before breaks and at the end of work.
- **Breathing equipment:** Not necessary if room is well-ventilated.
- **Protection of hands:**



Protective gloves

Preventive skin protection by use of skin-protecting agents is recommended.

- **Material of gloves**

Rubber gloves

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.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Safety glasses

- **Body protection:** Protective work clothing

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

| | |
|------------------|-----------------|
| Form: | Pasty |
| Colour: | Light brown |
| Smell: | Odourless |
| Odour threshold: | Not determined. |
| pH-value: | Not determined. |

- **Change in condition**

| | |
|--|---------------|
| Melting point/freezing point: | Undetermined. |
| Initial boiling point and boiling range: | 122 °C |

| | |
|---------------------------------|---|
| Flash point: | 240 °C |
| Inflammability (solid, gaseous) | Not applicable. |
| Ignition temperature: | 375 °C |
| Decomposition temperature: | Not determined. |
| Self-inflammability: | Product is not selfigniting. |
| Explosive properties: | Product does not present an explosion hazard. |
| Critical values for explosion: | |
| Lower: | Not determined. |
| Upper: | Not determined. |
| Steam pressure at 20 °C: | 12 hPa |
| Density at 20 °C | 1.74 g/cm ³ (EN ISO 2811-1) |

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- **Relative density** Not determined.
- **Vapour density** Not determined.
- **Evaporation rate** Not determined.
- **Solubility in / Miscibility with Water:** Not miscible or difficult to mix.
- **Partition coefficient: n-octanol/water:** Not determined.
- **Viscosity:**
 - dynamic at 20 °C:** 80.000 mPas (ISO 2555)
 - kinematic:** Not determined.
- **Solvent content:**
 - Organic solvents:** 0.0 %
 - Water:** 0.0 %
 - VOC** 0.0 %
 - 0.00 %
- **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 strong acids 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:** No dangerous decomposition products known.
- **Additional information:** Product releases low quantities of methanol during appropriated application.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **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 (carcinogenicity, 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:** No further relevant information available.
- **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.

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- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **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** Smaller quantities can be disposed of with household waste.
- **European waste catalogue**
08 00 00 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 04 00 wastes from MFSU of adhesives and sealants (including waterproofing products)
08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09
- **Uncleaned packagings:**
- **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 Void
- **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.
- **Transport/Additional information:** Not dangerous according to the above specifications.
- **UN "Model Regulation":** Void

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 20

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- **National regulations**
- **Other regulations, limitations and prohibitive regulations**
- **GEV-Guidline/EMICODE: EC 1 plus R, "very low emission"**
- **VOC:**
- **VOC (EU) 0,0 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.

· **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)

MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

GB

ENVIRONMENTAL PRODUCT DECLARATION

for **WAKOL MS 260 Parquet Adhesive, firm-elastic**
as per ISO 14025 and EN 15804

The general Environmental Product Declaration (EPD) of the German IBU (Institut Bauen und Umwelt e.V) with the declaration number

EPD-DBC-20130027-IBG1-D

for **Reactive resins based on polyurethane or SMP, filled or aqueous, solvent-free**

is applicable for the above mentioned building product and describes its environmental performance to promote sustainable construction.

The product is manufactured and distributed by:

Wakol GmbH
Bottenbacher Straße 30
D-66954 Pirmasens
(herinafter referred to as manufacturer)

This declaration of the "Institut Bauen und Umwelt e.V." is the data basis for presenting technical properties of a product, because it reveals all the relevant environmental data, which are indispensable for calculating the life cycle assessment or the energy consumption of a building.

It contains in detailed manner:

- General indications
- Product definition
- LCA (Life Cycle Assessment): calculation rules
- LCA: Szenarios and further technical information
- LCA: results
- LCA: interpretations
- Verifications

More information to EPDs can be found on the homepage of the "Institut Bauen und Umwelt e.V." – www.bau-umwelt.de.

The technical data sheet and more information to the product can be found on www.wakol.de.

This environmental product declaration is issued under the sole responsibility of the manufacturer.

Signed for and on behalf of the manufacturer by:

Pirmasens, 26.07.2016



Dr. Martin Schäfer
Director Research & Development,
Technical Service and Purchasing