

WAKOL D 3540 Cork Contact Adhesive

Technical Information

Area of application

Dispersion-based contact adhesive for laying of

- cork floorings with natural cork backing according to ISO 3813 resp. DIN EN 12104; also veneered, waxed or pre-sealed
- cork wall coverings
- carpet floorings on stairs

on absorbent and non-absorbent subfloors indoors.

Special properties



1)



2)



3)

- solvent-free according to TRGS 610
- suitable for wheelchairs
- suitable for underfloor heating
- immediately suitable for walking

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

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

3) Emission class according to French law

Technical data

Raw material base:	latex/acrylate dispersion
Airing time:	approx. 30 - 45 minutes on absorbent subfloors; approx. 60 - 90 minutes on non-absorbent subfloors and on the back of the floor covering
Open time:	approx. 120 - 180 minutes; with pre-coating approx. 60 – 90 minutes
Cleaning agent:	water before adhesive dries
Storage time:	12 months at +5 °C to +25 °C
Storage temperature:	not below +5 °C, sensitive to frost
GISCODE:	D1
EMICODE according to GEV:	EC1 PLUS

Application and consumption ⁴⁾:

Short-haired velours roller	min. 250 g/m ²	cork floorings
TKB A1 – A3	150 – 650 g/m ²	carpet floorings

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

Subfloors

The subfloor and the room climate conditions must satisfy the requirements of DIN 18365. Subfloors must be level, permanently dry, firm and free from cracks, dust, dirt and adhesion-inhibiting substances. Existing floor-coverings must be glued well and must have a smooth surface free from wax and care products.

For laying cork-materials with WAKOL D 3540 Cork Contact Adhesive the subfloor must be smooth and level. Rough and unlevelled surfaces must be levelled with appropriated cement-based Wakol levelling compounds, for example WAKOL Z 615 Levelling Compound, dust-reduced. Respect the technical information of the primers and levelling compounds.

Anhydrite, magnesite and stonewood floors as well as cast asphalt must always be levelled with a layer thickness of at least 2 mm. Not sufficient even plasters have to be sanded with a high quality fine levelling compound.

Sanded compounds have to be primed with WAKOL D 3040 Primer Concentrate, diluted 1:2 with water or WAKOL D 3035 Universal Primer. Before bonding, the primer has to be dried completely.

Usage

Stir adhesive well before use. Apply evenly and fully to subfloor and cork backing with a velour roller; avoid adhesive pools. Make sure that the applied amount is sufficient to form a complete film of adhesive. The surfaces must show a closed, evenly glossy film when the adhesive has dried.

As soon as both adhesive films are dry and completely transparent, lay down the cork tiles to fit and knock tightly with a rubber hammer. The laid tiles are immediately suitable for walking. Natural cork can be surface sealed after 24 hours.

Cork tiles can already be pre-glued before the laying day with WAKOL D 3540 Cork Contact Adhesive (up to 24 hours before the laying) or mechanically with WAKOL D 3513 Cork Pre-Coating (up to 6 months before the laying). On the laying day the adhesive is simply applied to the subfloor and after ample waiting the pre-glued cork tiles are stuck in the contact method. The open time is reduced to 60 - 90 minutes in this case.

Important

Do not use below +15 °C. During cold weather periods warm up WAKOL D 3540 Cork Contact Adhesive in due time.

WAKOL D 3540 Cork Contact Adhesive is not suitable for laying cork floorings with PVC backing according to DIN EN 655, please contact our technical department before installation.

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 17.02.2015 supersedes all previous versions.

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

Printing date 20.02.2017

Version number 5

Revision: 20.02.2017

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

- **1.1 Product identifier**
- **Trade name:** *WAKOL D 3540 Cork Contact Adhesive*
- **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*
- **Additional information:**
*Contains zinkbis(diethyldithiocarbamate), 1,2-benzisothiazol-3(2H)-one, a mixture of: 5-chloro-2-methyl-2 H -isothiazol-3-one [EC No 247-500-7] and 2-methyl-2 H -isothiazol-3-one [EC No 220-239-6] (3:1). May produce an allergic reaction.
Safety data sheet available on request.*
- **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** *Immediately wash with water and soap and rinse thoroughly.*

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- **After eye contact**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing**
Seek immediate medical advice.
Rinse out mouth and then drink plenty of water.
- **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.

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:** No special measures required.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Ensure adequate ventilation
- **6.2 Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Dilute with plenty of water.
- **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** No special measures required.
- **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 frost.
- **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.

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- **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.
- **8.2 Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**
The usual precautionary measures are to be adhered to when handling chemicals.
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:	White
- **Smell:** Characteristic
- **Odour threshold:** Not determined.
- **pH-value at 20 °C:** 7.9 (ISO 976)
- **Change in condition**

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	100 °C
- **Flash point:** Not applicable.
- **Inflammability (solid, gaseous)** Not applicable.

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- **Ignition temperature:**
- 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:** 23 hPa
- **Density at 20 °C** 1.1 g/cm³ (EN ISO 2811-1)
- **Relative density** Not determined.
- **Vapour density** Not determined.
- **Evaporation rate** Not determined.
- **Solubility in / Miscibility with**
- Water:** Fully miscible.
- **Partition coefficient: n-octanol/water:** Not determined.
- **Viscosity:**
- dynamic at 20 °C:** 23000 mPas (ISO 2555)
- kinematic:** Not determined.
- **Solvent content:**
- Organic solvents:** 0.0 %
- Water:** 51.6 %
- VOC** 0.0 %
- 0.00 %
- VOC (EC)** 0,0 %
- Solids content:** 48.4 % (DIN EN 827.8.2)
- **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** No dangerous reactions known.
- **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.

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 that are relevant for classification:**
- 14324-55-1 zinkbis(diethyldithiocarbamate)**
- Oral LD50 2280 mg/kg (rat)
- Dermal LD50 >2000 mg/kg (rat)

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- **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 (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:**
- 14324-55-1 zinkbis(diethyldithiocarbamate)**
- LC50/96h 0.23 mg/l (Oncorhynchus mykiss) (OECD RL 203)
- EC50/48h 0.24 mg/l (Daphnia magna)
- EC50/96h 1.1 mg/l (Chlorella vulgaris)
- IC50/96h 1.1 mg/l (Chlorella Pyrenoidosa)
- **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.
- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:**
- Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
- Do not allow product to reach ground water, water course or sewage system.
- Danger to drinking water if even small quantities leak into the ground.
- Harmful to aquatic organisms
- **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 packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

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· **Recommended cleaning agent:** Water, if necessary together with cleansing agents.

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.
- **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.
- **National regulations**
- **Other regulations, limitations and prohibitive regulations**
- **GEV-Guideline/EMICODE:** EC 1 plus, "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)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative