PRODUCT DATA SHEET

Universal pressure-sensitive and wet adhesive

UZIN KE 2000 S

Universal adhesive for all common floor covering types

Description:

UZIN KE 2000 S is a strong dispersion adhesive with short open time and long working time for application with the pressure sensitive, wet set adhesive and double drop bonding method. For use on floors and walls. For interior use.

As a special adhesive:

- for homogeneous and heterogeneous PVC or CV floor coverings in sheets and tiles
- for rubber floor coverings in sheets up to 4 mm (e.g. noraplan®) and floor coverings with acoustic or foam underlay

As a universal adhesive:

- for textile floor coverings with all common backings
- for light needle punch or woven carpet
- for PVC design floor coverings
- for linoleum in sheets up to 3,2 mm

- on warm water underfloor heating system
- for exposure to castor wheels in accordance with DIN EN 12 529 from 1 mm thickness of levelling compound
- for heavy wear in residential, commercial and industrial locations

Provides the highest possible level of emission safety and contributes towards creating a healthy room climate. Marked with the **"Blue Angel"** for low-emission floor covering adhesives and other installation materials according to RAL-UZ 113.

UZIN ÖKOLINE

GEV-EMICODE EC 1 PLUS very low emission

BLUE ANGEL THE GERMAN ECOLABEL

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www.blauer-engel.de/uz113

Product benefits / properties:

UZIN KE 2000 S offers high safety and a universal application field.

Composition: Aqueous polymer dispersions, modified resins, mineral-based fillers, preservation agents, additives and water.

- Odourless during and after application
- Excellent working properties
- Good tack with stringing
- Solvent-free
- EMICODE EC 1 PLUS / Very low emission
- RAL-UZ 113 / Environmentally compatible because of low emission

Technical Data:

Packaging:	Plastic bucket
Packsizes:	2 kg, 6 kg, 14 kg
Shelf life:	minimum 12 months
Colour wet / dry:	cream-white / transparent
Consumption:	180 – 380 g/m²**
Working temperature:	min. 15 °C at floor level
Open time:	10 – 45 minutes*
Working time:	15 – 120 minutes*
Set to traffic:	after 24 hours*
Final strength:	after 3 days*
Sealing / filling joints:	after 24 hours*

* At 20 °C and 65 % relative humidity, depending on the type of floor covering, the absorbency of the substrate and the bonding method.

** Max. acceptable consumption for shipbuilding (IMO): 320 g/m²

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Substrate Preparation:

The subfloor must be sound, load bearing, level, dry, free from cracks, clean and free from material which would impair adhesion (e.g. dirt, oil, grease). The surface must be vacuumed, primed and levelled thoroughly. Suitable primers and levelling compounds can be found in the UZIN product guide. The substrate must be tested in accordance with applicable standards and bulletins and any deficiencies must be reported. Always allow primer and levelling compound to dry well all the way through.

Refer to the Product Data Sheets for other products used.

Thicknesses of levelling compound:

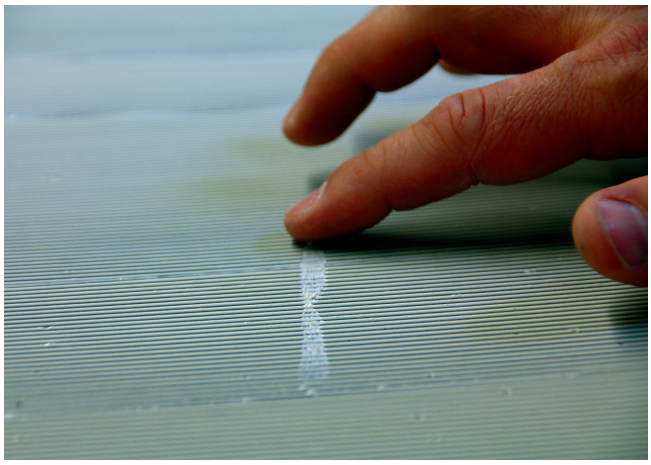
- non absorbent or moisture sensitive substrates → 2 mm (with rubber 3 mm)
- new calcium sulphate screed → 1 – 2 mm (with rubber 2 mm)
- on existing substrates → mind. 2 mm (with rubber 3 mm)

Application:

1. Apply adhesive uniformly with suitable notched trowel onto the substrate and allow to dry partially according to the application amount, the indoor climate, the absorbency of the substrate and the type of floor covering. Do not apply more adhesive than can be laid with good wetting of the back of the covering within the working time.
2. Install the floor covering with short open time; the adhesive groove should be pressed out. Rug in or roll out or apply weight against extreme flooring deformation or mill first. Ensure that air is not trapped under the covering. Allow the area to rest for 20 minutes and then roll out again or rub in at edge and seam area.

Wet Set Adhesive Method: Install the floor covering, roll out and rework. If the adhesive is still cream-white or merely dried on the surface the tack is not yet present or is only minor.
Double-Drop-Method: Install the floor covering wet and rub in. Fold back immediately and allow backing of floor covering and substrate to partially dry until tacking can be felt (finger test see picture below). The adhesive ridge should not be totally transparent. Install the floor covering again, roll out and rework.
Wall applications: Apply the adhesive with a lamb's wool roller onto the prepared wall, work immediately with the appropriate notch trowel and allow to partially dry. Install and rub in the covering.
Contact applications: Depending on the type of covering apply the adhesive with a trowel or a roller on the backside of the covering and the substrate. After drying of the adhesive, install floor covering and roll out.

3. Remove adhesive residues while fresh with water.



Consumption information:

Type of backing:	Notch size	Consumption*	IMO**
Smooth, e.g. cushioned vinyl on dense substrates	A 5	180 – 200 g/m²	✔
Smooth, e.g. CV floor coverings, luxury floor coverings, LifeLine® etc.	A 1	200 – 280 g/m²	✔
Slightly reliefed, e.g. PVC floor coverings, luxury floor coverings, rubber flooring, etc.	A 2	250 – 320 g/m²	✔
Reliefed, e.g. textile floor coverings, linoleum, soft needle punch floor covering, etc.	B 1	320 – 380 g/m²	⊘

* At 20 °C and 65 % relative humidity, with tempered adhesive buckets on UZIN NC 170 LevelStar.
** Max. acceptable consumption for shipbuilding (IMO): 320 g/m²

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Application table:

Floor covering on levelled substrates "Wet / semi-wet method"	Notch size	Open time*	Working time*
CV floor coverings on levelled substrates	A 5	10 – 20 min.	15 – 25 min.
PVC floor coverings, rubber flooring on levelled substrates	A 2	15 – 20 min.	20 – 40 min.
Textile floor coverings, linoleum on levelled substrates	B 1	20 – 30 min.	30 – 45 min.
Coarse needle punch floor covering on levelled substrates	B 2	10 – 20 min.	30 – 45 min.

Floor coverings on dense substrates "Pressure-Sensitive adhesive method"	Notch size	Open time*	Working time*
PVC floor coverings on UZIN KR 410 or dense installation underlay	A 5	30 – 40 min.	1 – 2 hours

Floor coverings on dense substrates "Double-drop method"	Notch size	Open time*	Working time*
Rubber flooring on smooth, dense coating	A 5	10 min, remove floor covering again, then 20 min.	45 min.

* At 20 °C and 65 % relative humidity with room-temperature adhesive containers.

Extended Application Field:

As a special adhesive:

- for chlorine-free, resilient floor coverings (e.g Upofloor Lifeline®)
- for PUR floor coverings in sheets up to 2 mm (e.g. WPT PUR-line®)
- for Flotex
- for wall coverings (e.g. PVC coverings in plumbing units)
- for sports flooring (e.g. PVC coverings in gymnasiums)

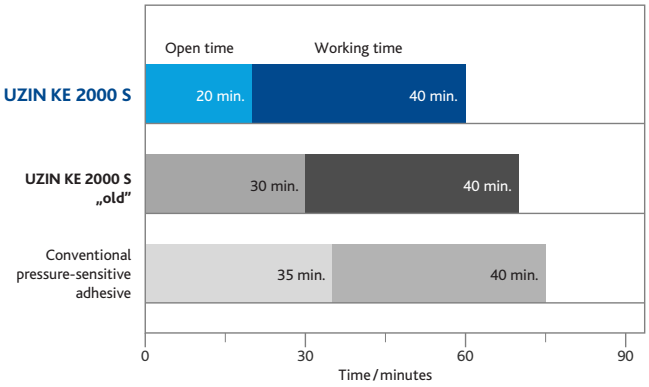
As a universal adhesive:

- for textile floor coverings with latex foam or fleece backing
- for corkment as well as for all UZIN insulation and installation underlays

Generally:

- on absorbent and levelled substrates with the wet / semi-wet set adhesive method
- on dense or non absorbent substrates with the pressure sensitive method (only PVC and CV floor coverings, no design floor coverings)
- on dense or non absorbent substrates with the Double-Drop method (PVC and CV floor coverings, rubber floor coverings)
- suitable for wet shampooing and spray extraction cleaning according to RAL 991 A2

Partial drying and installation time of various pressure-sensitive adhesives:



PVC sheet installation on UZIN NC 170 LevelStar, notch size A 2, at 20 °C and 65 % relative humidity.

The open time required for pressure-sensitive adhesives could be minimised with the raw material choice of the UZIN KE 2000 S without shortening the installation. This provides greater certainty to the installer and fewer restrictions with the different construction site conditions. The floor covering can therefore be installed earlier with many applications. The installer becomes significantly faster through the earlier installation option; the adhesive is thereby better pressed out. This has a positive effect on the overall look of the installed floor covering area; the floor covering lies flatter and quieter.

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Important Notes:

- Shelf life minimum 12 months in original packaging when stored in relatively cool conditions. Frost-resistant up to – 14 °C. Carefully and tightly reseal opened buckets and use the content as quickly as possible. Allow adhesive to reach room temperature before use.
- Optimum work conditions are 18 – 25 °C, floor temperature above 15 °C / 59 °F and relative air humidity below 65 %. Low temperatures and high air humidity lengthen, whilst high temperatures and high air humidity shorten the drying time.
- Humid substrates may cause secondary emissions and odours. Therefore a good drying of the levelling compound must be observed on levelled substrates.
- Direct bonding on old adhesive residues can cause interactions and lead to unpleasant odour. Therefore old layers should ideally be removed. In all cases adhesive residues must be reworked with a barrier primer and levelled generously with a self-levelling compound at sufficient thickness (usually 3 mm)
- Before bonding floor coverings must be adequately acclimatised and free from tension and must be adapted to the common indoor climate for future use.
- In case of extreme temperatures from exposure to light, heavy mechanical strain from pallet trucks, fork lifts, etc. or when exposed to wetness from the top, a synthetic resin adhesive such as UZIN KR 430 must be used. Obtain application advice in case of doubt.
- For the applications coating, sealing, cleaning and maintaining the products of UZIN Care can be used to (UZIN Basic Cleaner, UZIN Turbo Protect Plus, UZIN Resilient Sealer, UZIN Resilient Care, UZIN Refresher). For further information please refer the separate product data sheets.
- The following standards, regulations and publications are applicable and especially recommended:
  – DIN 18 365 “Working with floor coverings”
  – TKB specification sheet “Assessment and preparation of surfaces for floor covering and wood floor covering”
  – BEB specification sheet “Assessment and preparation of surfaces”
  – TKB specification sheet “Adhesion of PVC floor coverings”
  – TKB specification sheet “Adhesion of elastomeric floor coverings”
  – TKB specification sheet “Adhesion of linoleum floor covering”
  – TKB specification sheet “Adhesion of textile floor covering”

Protection of the Workplace and the Environment:

Solvent-free. The use of skin protection lotion is always recommended. Store out of reach from children. Provide thorough ventilation during and after processing / drying! Avoid eating, drinking and smoking while processing the product. In the event of contact with the eyes or skin, rinse thoroughly and immediately with water. Do not allow to enter the sewer system, bodies of water or the soil. Clean the tools with water and soap immediately after use.

EMICODE EC 1 PLUS – very low emission. Within the scope of current knowledge, gives off no emissions of formaldehyde, hazardous materials or volatile organic compounds (VOC). When fully dried, has a neutral ododur and presents no physiological or ecological risk.

Basic prerequisites for best possible indoor air quality following floor covering work are conformity to standards of the working conditions, as well as thoroughly dry substrate, primer and smoothing compound.

Product contains isothiazolinones. Information for persons with allergies is available at +49 (0)731 4097-0 (Germany).

Disposal:

Where possible, collect product residues and re-use. Do not allow dispersal into drains, sewers or ground. Empty, scraped and drip-free plastic containers are recyclable. Containers with liquid residue, as well as the liquid product, are classed as Special Waste. Dried product residues are classed as Construction Waste.

The above information is based on our experience and careful investigations. The variety of associated materials and different construction and working conditions cannot be individually checked or influenced by us. The quality of your work depends, therefore, on your own professional judgement and product usage. If in doubt, conduct a small test or obtain technical advice. Observe the installation recommendations of the covering manufacturer. The publication of this Product Data Sheet invalidates all previous Product Information. The respective updated version of this datasheet can be found on our Homepage under www.uzin.com.