

PRODUCT DATA SHEET

Universal pressure-sensitive and wet adhesive

UZIN KE 2000 S NEW

Adhesive for resilient floor coverings as well as universal adhesive for all common floor covering types

Applications:

Strong dispersion-based adhesive with latest raw material technology with shortest open time and nonetheless long installation time for application a pressure sensitive, a wet set adhesive and double-drop bonding method. Special adhesive for PVC and rubber flooring in commercial projects as well as universal adhesive for all common floor covering types. For use on floors and walls. For interior applications.

Main application area for:

- ▶ Homogeneous and heterogeneous PVC / CV floor coverings in sheets and tiles.
- ▶ Rubber flooring in sheets, e.g. noraplan® up to 4 mm, including floor coverings with acoustics or foam underlay.

Suitable also as universal adhesive for:

- ▶ Textile floor coverings with all common backings
- ▶ Light-weight needle punch floor covering or woven carpet
- ▶ PVC /CV floor coverings, also Luxury Vinyl Tiles
- ▶ For linoleum runs up to 3.2 mm thick



UZIN KE 2000 S NEW provides the highest possible level of emission safety and contributes to 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



Composition: Plastic dispersions, modified resins, thickeners, wetting, defoaming and preservation agents, mineral fillers, water.

Product benefits / features:

A new choice of raw materials has resulted in numerous property improvements providing the installer with additional advantages, certainty and beneficial claims:

- ▶ Odourless during and after processing
- ▶ Very easy to apply
- ▶ Short open time
- ▶ Long working time
- ▶ Good tack with stringing
- ▶ GISCODE D1 / solvent-free
- ▶ EMICODE EC1 PLUS / very low emission PLUS
- ▶ RAL UZ 113 / environmentally compatible because of very low emission

Technical Data:

Packaging:	Plastic bucket
Packsizes:	14 kg, 6 kg, 2 kg
Shelf life:	min. 12 months
Colour wet / dry:	crème-white / transparent
Consumption:	200 – 500 g / m ²
Working temperature:	min. 15 °C at floor level
Open time:	10 – 45 minutes*
Working time:	approx. 120 minutes*
Load bearing:	after 24 hours*
Final strength:	after 3 days*
Joint welding:	after 24 hours*

* At 20 °C and 65% relative humidity, depending on the floor covering as well as bonding method.

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Extended applications:

Suitable as special adhesive for:

- ▶ Chlorine-free resilient floor coverings, e.g. Upofloor LifeLine®
- ▶ PUR floor coverings in sheet up to 2.0 mm, e.g. WPT PURline®
- ▶ Flotex
- ▶ Wall coverings, e.g. PVC floor coverings in bathrooms

Suitable also as universal adhesive for:

- ▶ Textile floor coverings with all common backings, including Latex foam backing, fleece backing or similar.
- ▶ Korkment as well as for all UZIN insulation and installation underlays

Suitable on / for:

- ▶ absorbent, levelled substrates in wet or semi-wet process
- ▶ dense, non-absorbent substrates, such as on coatings, UZIN KR 410 or on insulation underlays in pressure adhesion method (only PVC / CV floor coverings)
- ▶ dense, non-absorbent substrates in double-drop method (only PVC / CV floor coverings and rubber flooring)
- ▶ high strain in residential, commercial and industrial areas, e.g. in hospitals, high-traffic shopping malls, shops, etc.
- ▶ hot water underfloor heating
- ▶ strain from chair castors according to DIN EN 12 529 from 1 mm compound thickness
- ▶ Wet shampooing and spray extraction cleaning according to RAL 991 A2

Substrate preparation:

The substrate must be sound, level, dry, free of cracks, clean and free of materials that could impair adhesion.

Test the substrate in accordance with applicable standards and bulletins and report any deficiencies. Thoroughly vacuum off, prime and smooth surface.

Depending on the substrate, floor covering and strain suitable primers and levelling compounds can be taken from the UZIN product overview.

Always allow primer and levelling compound to dry well all the way through. Thoroughly grind out and clean or degrease dense, non-absorbent substrates (e.g. when installing PVC floor covering on UZIN KR 410). Observe the product data sheets of the other UZIN products as well as the floor coverings used.

Application:

1. Apply adhesive uniformly with suitable notched trowel (see "Consumption data") onto the substrate and allow to dry partially according to the intended bonding method, 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 transfer to the back of the covering within the working time. Use only the wet / semi-wet method with standard installations on levelled substrates.
2. Install the floor covering with short open time; the adhesive groove should be pressed out. Rub 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.
3. Remove adhesive residues while fresh with warm water.



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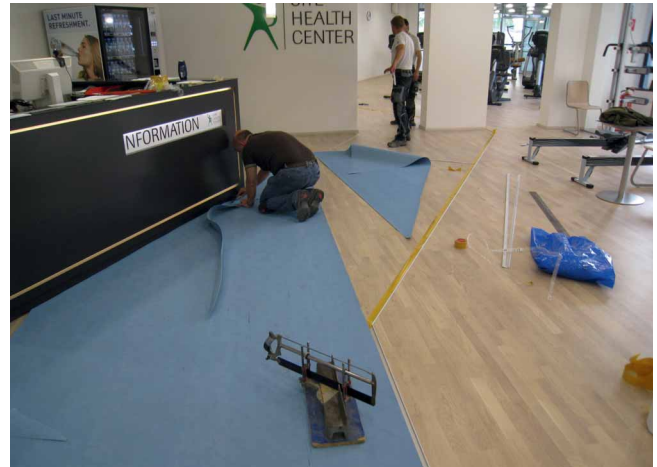


Consumption information:

Consumption information:	Notch size	Consumption*
Smooth, e.g. cushioned vinyl on dense substrates	A 5	180 – 200 g/m ²
Smooth, e.g. CV floor coverings, luxury floor coverings, LifeLine® etc.	A 1	200 – 280 g/m ²
Slightly relieved, e.g. PVC floor coverings, luxury floor coverings, rubber flooring, etc.	A 2	250 – 320 g/m ²
Relieved, e.g. textile floor coverings, linoleum, soft needle punch floor covering, etc.	B 1	320 – 380 g/m ²
Relieved, e.g. coarse needle punch floor covering, woven carpets, etc.	B 2	450 – 500 g/m ²

*At 20 °C and 65 % relative humidity at room temperature adhesive packs on UZIN NC 170 LevelStar.

Practice information:



This is a typical situation easy to master with UZIN KE 2000 S NEW: Installation of PVC floor covering during ongoing operation on an installation underlay, here, for example, on UZIN RR 186.

Application table:

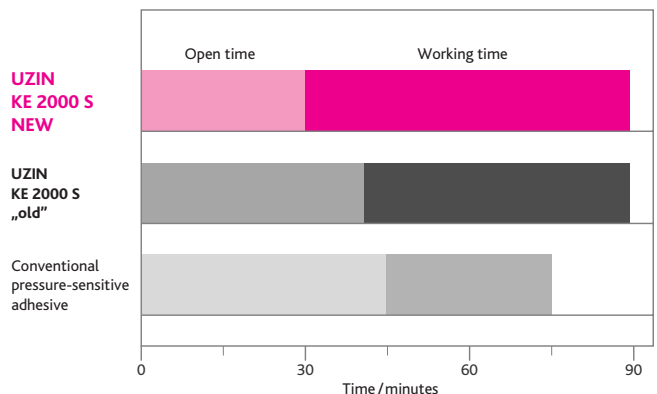
Floor covering on levelled substrates "Wet/semi-wet method"	Notch size	Open time	Working time
CV floor coverings on levelled substrates	A 5	10 – 20 min.	15 – 25 min.
Rubber flooring on levelled substrates	A 2	15 – 20 min.	20 – 40 min.
Textile floor coverings, linoleum on levelled substrates	B 1	20 –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

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



PVC sheet installation in pressure adhesive method on ground UZIN KR 410, notch size A 5, 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 new UZIN KE 2000 S without shortening the installation/open time. 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 at least 12 months in original packaging when stored in moderately cool conditions. Frost-resistant to -10 °C. Tightly re-seal opened containers and use the contents as quickly as possible. Allow adhesive to reach room temperature before processing.
- ▶ Optimum processing at 18 – 25 °C, floor temperature above 15 °C and relative humidity below 65 %. Low temperatures and high humidity will delay whilst high temperatures and low humidity will accelerate the installation, setting and drying time. Whilst installing linoleum, the room temperature should not fall below 20 °C.
- ▶ Moist substrates may cause secondary emissions and odours. Good drying of the levelling compound must therefore be observed with levelled substrates.
- ▶ Direct bonding on old adhesive residues can cause interactions and thus unpleasant odour development. Old layers should therefore ideally be removed. At any rate, old adhesive residues need to be reworked with a barrier primer and levelled generously with a self-levelling compound at sufficient thickness (usually 2 mm).
- ▶ Floor coverings must be adequately free from tension before bonding them and adequately acclimatized and have adapted to the indoor climate common for the future use.
- ▶ Install, roll-out and rework in wet /semi-wet method according to "Application table". If the adhesive groove is still crème-white or merely dried on the surface. The tack is not yet present or is only minor.
- ▶ In pressure adhesive methods allow to partially dry until the colour of the adhesive changes from crème-white to transparent. Then install, roll-out and rework.
- ▶ In 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); however, the adhesive groove must not be fully transparent. Then install, roll-out and rework.
- ▶ UZIN KE 2000 S NEW can be used for the installation of rubber flooring, e.g. noraplan® or also for luxury vinyl tiles. However, with the fibre-reinforced wet adhesive UZIN KE 66 the floor covering can be installed earlier into the adhesive bed. The result is an even better surface quality at a lower risk or residual indentation during subsequent use as well as increased dimensional stability of finally installed floor coverings at high heat exposure, e.g. from exposure to light.
- ▶ 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 or UZIN KR 421 must be used. Obtain application advice in case of doubt.
- ▶ Wall bonding is handled effortlessly with UZIN KE 2000 S. To do so, apply the adhesive with a lamb's wool roller onto the prepared wall, work immediately with the appropriate notch size and allow to partially dry. Install and rub in floor covering. If need be, fix at the upper end with solvent-free contact adhesive UZIN WK 222.

- ▶ UZIN KE 2000 S has the approval as shipbuilding equipment product by the maritime occupational association (formerly "See-Berufsgenossenschaft Hamburg"), module B and module D. Certificates are available upon request. Application amount max. 320 g/m².
- ▶ Observe the generally acknowledged rules of the industry and technology for the installation of floor covering as well as the respective applicable national standards. (E.g. EN, DIN, VOB, OE, SIA and others). The following standards and bulletins apply as well, amongst others, or are recommended for special consideration:
 - DIN 18 365 "Working with floor coverings"
 - TKB publication "Assessment and preparation of substrates for floor covering and wood flooring installation"
 - BEB publication "Assessment and preparation of substrates"
 - TKB publication "Bonding of PVC floor covering"
 - TKB publication "Bonding of elastomer floor covering"
 - TKB publication "Bonding of linoleum floor covering"
 - TKB publication "Bonding of textile floor covering"

Protection of the workplace and the environment:

GISCODE D1 – solvent-free as per TRGS 610. 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. The basic prerequisites for optimal room air quality after floor covering work consist of installation conditions conforming to standards and well-dried substrates, primers and levelling compounds. **Product contains isothiazolinones. Information for persons with allergies is available at +49 (0)731 4097-0 (Germany).**

Disposal:

Collect product residues wherever possible and reuse. Do not allow to enter the sewer system, bodies of water or the soil. Plastic containers emptied or scraped clean and no longer dripping from any residues can be recycled [Interseroh]. Containers with liquid residues as well as collected liquid product residues are special waste. Containers with cured residues are construction waste /domestic waste.

