PRODUCT DATA SHEET

Adhesive for Conductive PVC and Rubber

UZIN KE 2000 SL

Conductive fibre-adhesive for sheet rubber and all PVC floor coverings

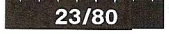
Description:

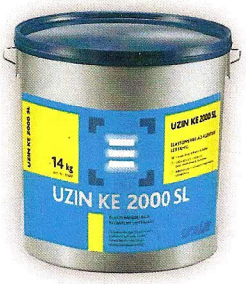
Electrically conductive dispersion adhesive in accordance with DIN EN 14 259 for interior installation of conductive sheet rubber and for conductive PVC sheet and tile flooring.

Suitable for / on:

- conductive sheet rubber up to 3.5 mm thickness with flat, sanded backing and smooth or only finely textured surface, e.g. Noraplan® stone al, plus al, etc. (for special coverings, please consult the covering manufacturer)
- conductive, homogeneous PVC sheet and tile coverings
- level, absorbent, prepared surfaces
- normal wear in domestic, commercial and industrial locations
- warm water underfloor heating systems
- exposure to castor wheels in accordance with DIN EN 12 529
- wet shampoo and spray-extraction cleaning systems

Notched trowel blade included





Composition: Modified polyvinyl acetate copolymers, thickening-, wetting- and de-foaming- agents, preservatives, carbon fibres, mineral fillers, water.

- Very low consumption
- Long working time
- Electrically conductive
- 28 cm snap-off trowel blade attached
- Solvent-free

Product Properties / Benefits:

Ready to use, water-based dispersion adhesive with high final strength and conductive carbon fibres that help to stabilise the applied adhesive and, during installation, better protect the freshly laid covering from pressure marks, e.g. knee indentation marks. The fibre additive also has a positive effect on the residual indentation properties of the installed covering during later use.

Technical Data:

Packaging:	plastic drum
Packsize:	14 kg
Shelf life:	min. 12 months
Colour:	light grey
Consumption:	250 – 300 g / m²
Working temperature:	min. 15 °C / 59 °F at floor level
Open time:	20 – 40 minutes *
Working time:	approx. 1 hour *
Load bearing:	after 24 – 48 hours *
Final strength:	after 4 – 5 days *
Welding / sealing joints:	after 24 – 48 hours *
Electrical resistivity (DIN EN 13 415):	< 3 x 10^5 Ω

* At 20 °C / 68 °F and 65 % relative humidity.

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Substrate Preparation:

The substrate must be sound, level, dry, free from cracks, clean and free from materials that would impair adhesion. Test the substrate in accordance with applicable standards and notices and report any deficiencies. Thoroughly vacuum the surface and apply primer and smoothing compound. According to substrate, covering and occupational use, select suitable primers and smoothing compounds from the UZIN Product Guide.

On non-absorbent or moisture-sensitive substrates, such as new mastic asphalt 2 mm, new calcium sulphate screeds 1 – 2 mm or existing floor finishes, apply smoothing compound to a minimum thickness of 2 mm. Always allow primers and smoothing compounds to dry thoroughly. Refer to the Product Data Sheets for other products used.

Conductive System:

The conductive system should be that prescribed by the floor covering manufacturer; the following options are possible:

If the covering has a laterally conductive backing layer, or if only antistatic performance is required, installation can be installed with copper-strip tabs. Otherwise, prior to covering installation, a conductive system must be applied to the substrate for later connection to earth by a qualified electrician.

With copper-strip tabs: For every 30 m², run a strip of self-adhesive UZIN Copper Strip, approx. 1.5 m long, to an earth connection point. The distance between the copper-strips should not exceed 7 metres.

With UZIN Copper Strip: Bond UZIN Copper Strip onto the surface, centrally and along the length of each sheet width from wall to wall, or as a grid under each row of tiles. Cross-connect the ends with more tape laid approx. 30 cm from the wall. For approx. every 30 m² of surface area, leave projecting a tab of adequate length for earth connection.

With UZIN PE 260 L: Instead of the copper-strip system, the liquid Conductive Priming Coat UZIN PE 260 L can be applied to the whole surface area (only for PVC coverings). Always allow this to dry well. For earth connection, bond copper strip connection tags of approx. 1 m length onto the dry conductive primer.

Application:

1. Apply the adhesive evenly onto the substrate using the special notched trowel blade supplied, Pütz 23/80, and leave an open time according to the application quantity, climatic conditions, substrate absorbency and type of covering. Only apply as much adhesive as can be covered within the working time and with good transfer to the backing of the covering.
2. Lay in the covering, rub down over the whole area and repeat after 20 – 30 minutes. Change the notched trowel frequently.
3. Clean off adhesive contamination whilst still fresh using warm, distilled water.

Consumption:

Backing	Notch	Consumption*
Rubber with sanded backing, e.g. Noraplan®	23/80	250 – 300 g/m²
PVC sheet and tile	23/80	250 – 300 g/m²

*At 20 °C / 68 °F and 65 % relative humidity, on prepared substrates and with acclimatised adhesive containers.

Important Notes:

- Shelf life minimum 12 months in original packaging when stored in relatively cool conditions. Protect from frost. Carefully and tightly seal opened packaging and use the contents as quickly as possible. Before use, bring the adhesive to room temperature.
- Optimum working conditions are 18 – 25 °C / 64 – 77 °F, floor temperature above 15 °C / 59 °F and relative humidity below 75 %. Low temperatures and high humidity lengthen, and high temperatures and low humidity shorten the working-, setting- and drying- times.
- Damp substrates can lead to secondary emissions and odours. Therefore, only install on fully dried substrates and, on prepared surfaces, ensure that smoothing compounds are as dry as possible.
- Before bonding, coverings must be adequately relaxed, acclimatised and matched to the climatic conditions to which it will be exposed during use.
- When installing rubber flooring, do not use the Conductive Priming Coat UZIN PE 260 L. A copper-strip system must be used.
- For exposure to, e.g. heavy pallet-truck or forklift-truck traffic, strong sunlight or effects of temperature, or where moisture ingress over the joints in the covering is anticipated, use the 2-Component Conductive Epoxy-Resin Adhesive UZIN KR 421 L and seek technical advice.
- For special coverings, consult the covering manufacturer.
- When applying the adhesive, avoid creating adhesive pockets. Scrape any accumulated fibres off the notched adhesive trowel blade.
- The following standards and notices are applicable and especially recommended:
  - DIN 18 365 "Working with floor coverings"
  - Publication of the Adhesives Industry Association "Assessment and preparation of subfloors – bonding resilient and textile floor coverings"
  - TKB publication "Assessment and preparation of subfloors for floor covering and wood flooring installation work"
  - BEB publication "Assessment and preparation of subfloors"

Protection of the Workplace and the Environment:

Solvent-free. Non-flammable. Requires no special protection or precautions in general use. Use of barrier cream and ventilation of the work area are recommended. 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.

Disposal:

Where possible, collect all product waste and re-use. Do not allow dispersal into drains, sewers or ground. Empty, scraped and drip-free plastic buckets 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