

Conductive Adhesive for Rubber Flooring

UZIN KE 66 L

Conductive fibre-adhesive for rubber tile floor coverings

Description:

Very low emission, electrically conductive dispersion adhesive in accordance with DIN EN 14 259 for the interior installation of conductive rubber coverings.

Especially suitable for/on:

- ▶ conductive rubber tile flooring up to 4 mm thickness with flat sanded backing and smooth or only finely textured surface, e.g. Norament® grano, stone or deco (for special coverings, please consult the covering manufacturer)
- ▶ conductive homogeneous and heterogeneous PVC floor coverings to a limited extent
- ▶ prepared, level and absorbent subfloors
- ▶ 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

Due to its hard adhesive ridges, this dispersion adhesive offers the best possible security against joint failures as a result of temperature variations in normal use.

Product Properties / Benefits:

Ready-to-use, water-based dispersion adhesive with high final strength and conductive, reinforcing carbon-fibres, which stabilise the applied adhesive and, during installation, protect the freshly laid covering from pressure marks, e. g. knee-marks. At the same time, the fibre additive has a positive effect on the residual indentation performance of the installed covering during later use. Due to its exceptional technical properties, also meets high demands in respect of workplace protection, indoor air quality and environmental friendliness.

Notched trowel blade included



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

- ▶ Very low consumption
- ▶ Short open time
- ▶ Very high strength
- ▶ Electrically conductive
- ▶ 28 cm snap-off trowel blade attached
- ▶ Solvent-free
- ▶ EMICODE EC 1/ Very low emission

Technical Data:

Packaging:	plastic drum
Packsize:	14 kg
Shelf-Life:	min. 12 months
Colour:	light grey
Consumption:	250 – 300 g/m ²
Working temperature:	min. 15 °C / 59 °F at floor level
Open time:	5 – 10 minutes*
Working time:	10 – 15 minutes*
Load bearing:	after 24 – 48 hours *
Final strength:	after 4 – 5 days *
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.

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, 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. Crossconnect 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.

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*
sanded, e.g. Norament®	23/80	250 – 300 g/m ²

*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. Use of barrier cream and ventilation of the work area are recommended.

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 odour and ecologically and physiologically harmless.

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.