

Conductive Textile and Linoleum Adhesive

UZIN UZ 57 L

Very low emission, dispersion adhesive with conductive fibre for conductive textile and linoleum flooring

Description:

Very low emission, ready to use, electrically conductive dispersion adhesive in accordance with DIN EN 14 259 for conductive or antistatic textile, needlepunch and linoleum flooring in interior locations.

Suitable for / on:

- ▶ textile coverings
- ▶ woven goods
- ▶ needlepunch
- ▶ linoleum sheet and tile coverings up to 4 mm thickness
- ▶ level, absorbent, prepared surfaces
- ▶ surfaces prepared with UZIN PE 260 L Conductive Priming Coat
- ▶ Korkment underlays*
- ▶ floor-change system UZIN MultiBase® and all UZIN insulating- and installation- underlays*
- ▶ normal wear in domestic, commercial and industrial locations
- ▶ warm water underfloor heating systems and for exposure to castor wheels in accordance with DIN EN 12 529
- ▶ wet shampoo and spray extraction cleaning systems

Due to its short open time, excellent thread-formation and wide range of uses, in the installation of conductive floor coverings, an efficient and reliable installation is possible. Even problematic coverings are easy to install.

*In conjunction with vapour permeable coverings.

Product Properties / Benefits:

Conductive, ready to use, wet-bed dispersion adhesive containing carbon fibres. Combines all the advantages of, e.g. exceptionally easy application, excellent grab properties and thread-formation as well as high final strength, with the highest demands in respect of workplace protection, indoor air quality and environmental compatibility.



Composition: Modified polyacrylate copolymers, resins and esters of vegetable origin, thickening-, wetting- and de-foaming- agents and preservatives, carbon fibres, mineral fillers and water.

- ▶ Easy to apply
- ▶ Rapid grab
- ▶ Excellent thread-formation
- ▶ High early- and final- strength
- ▶ Electrically conductive in accordance with DIN EN 14 259
- ▶ 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:	500 – 600 g/m ²
Working temperature:	min. 15 °C / 59 °F at floor level
Open time:	5 – 20 minutes*
Working time:	20 – 30 minutes*
Load bearing:	after 24 – 48 hours*
Final strength:	after 4 – 5 days*
Welding joints:	after 24 – 48 hours*
Conductive resistivity to DIN EN 13 415:	< 3 x 10 ⁵ Ohm

*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, prime and apply 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 surfaces, such as e.g. mastic asphalt, calcium sulphate screeds or existing surfaces, apply smoothing compounds to minimum 2 mm thickness. Always allow primers and smoothing compounds to dry thoroughly. Refer to the Product Data Sheets for the other products used.

Conductive System:

The conductive system is to be requested from the covering manufacturer and the following options are possible:

If the covering has a laterally conductive backing layer or if only antistatic performance is required, installation can be with just a conductive tag. Otherwise, prior to installation, a conductive system should be installed on the surface that must later be connected to earth by an electrician in accordance with electrical regulations.

With UZIN Copper-Strip Tags: For every 30 m² lay an approx. 1 metre, self-adhesive UZIN Copper-Strip to an earth connection point. The distance between individual copper-strip tags must not exceed 7 metres.

With UZIN Copper-Strip: Bond copper-strip to the substrate centrally along the length of every sheet width and from wall to wall. Connect the ends of the strips with a cross-strip laid approx. 30 cm from the wall. For every approx. 30 m² of area, leave exposed one strip for use as an earth connection tag.

With UZIN PE 260 L: Instead of the copper-strip system, the liquid Conductive Priming Coat UZIN PE 260 L can be applied over the whole surface area. Always allow this to dry well. At the earth connection point, a copper-strip approx. 1.5 metres long can be bonded to the dry conductive priming coat.

Application:

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

Consumption:

Backing Type	Notch Size	Consumption*
Heavily structures, e.g. textile secondary backings	23/TL	500 – 600 g/m ²
Coarse structure, e.g. needlepunch, woven goods	23/TL	500 – 600 g/m ²
Linoleum	23/TL	500 – 600 g/m ²

Important Notes:

- ▶ Shelf life min. 12 months in original packaging when stored in relatively cool conditions. Protect from frost. Tightly reseal opened containers and use the contents as quickly as possible. Before use, allow the adhesive to come to room temperature.
- ▶ Optimum 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, whilst high temperatures and low humidity shorten the working, setting and drying times.
- ▶ Damp substrates can lead to secondary emissions and odours. Therefore, only work on fully dried substrates and, on prepared surfaces, ensure that levelling compounds are fully dried.
- ▶ Before adhering, coverings must be adequately de-stressed, acclimatised and conditioned to the normal climatic conditions for later use.
- ▶ In the case of linoleum installation, it must be ensured that a gap of approx. 1 mm is left between the individual sheet widths.
- ▶ In the case of linoleum installation, do not use a liquid conductive priming coat. A conductive system in the form of copper-strip must be used.
- ▶ When applying the adhesive, avoid creating adhesive pools. Any collection of fibre on the trowel notches must be wiped off frequently.
- ▶ The following standards and notices are applicable and especially recommended: DIN 18 365 "Working with floor coverings"/publication by the Adhesives Industry Association "Assessment and preparation of substrates – bonding resilient and textile floor coverings"/TKB publication "Assessment and preparation of substrates for floorcovering and parquet work"/BEB publication "Assessment and preparation of substrates" 02/2002.

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.

EMICODE EC 1 – 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 is 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 product residues and re-use. Do not allow into drains, water courses or land-fill. Empty, scraped-out and drip-free plastic containers are recyclable. Containers with liquid residues and collected, liquid product residues are Special Waste. Containers with hardened residues are Construction Waste.