

Conductive Additive

UZIN PE 262 L

Additive to give electrical conductivity to UZIN dispersion products and cement mortars

Description:

UZIN PE 262 L is an electrically conductive dispersion concentrate for incorporating electrical conductivity in UZIN dispersion and cement mortar products. For interior use.

As a special additive:

- ▶ in UZIN U 1000
- ▶ in UZIN U 2100
- ▶ in codex thin- and medium-bed mortars

In case the additive should be used in other products, contact UZIN technical service for advice!

UZIN offers an almost complete programme of conductive flooring adhesives. In very rare cases, however, it may be necessary to make standard products conductive, e.g. for installing conductive SL-tiles with UZIN U 1000, etc. For this purpose, UZIN PE 262 L is available.



Product Properties / Benefits:

Water-based concentrate of electrically conductive pigments. The pigments are incorporated into the structure of the adhesive or mortar. After drying or hydraulic setting, they give the product the desired electrical conductivity.

- ▶ Low viscosity
- ▶ Very easy to mix
- ▶ Makes adhesives and mortars conductive
- ▶ Solvent-free

Technical Data:

Packaging:	Plastic canister
Packsize:	5 kg
Shelf life:	min. 9 months
Colour:	black
Required quantity:	see "Consumption"

Substrate Preparation:

See the Product Data Sheet for the product with which the Conductive Additive UZIN PE 262 L is to be mixed.

Application:

For liquid products, add the Conductive Additive in the prescribed quantity and mix until uniform. For powder products, pre-mix the prescribed quantities of water and Conductive Additive, then mix in the powder until lump-free.

Conductive System:

Consult the floor covering manufacturer for the conductive system; the following versions are possible:

With UZIN conductive copper tape:

Apply UZIN conductive copper tape to the substrate, along and centred under each row of tiles or sheet grid, from wall to wall. Connect the ends of the tapes with cross-tapes at a wall distance of approx. 30 cm. Allow one tab per approx. 30 m² subsection to protrude as connecting lug.

Conductive system for conductive ceramic tiling:

For areas up to 25 m², no conductive system is necessary. It is sufficient to be one Copper-strip of approx. 1 m length into the conductive adhesive mortar and leave it projecting for use as an earth connection. For larger areas, lay a conductive system with UZIN Copper-strip. Stick a grid over the surface using crossed Copper-strips at max. 5 m centres. At approx. 25 cm from the walls, connect the strips with a cross-strip fixed at right-angles. Bond the grid cross-points using conductive adhesive. For approx. every 30 m², leave one strip projecting for use as an earth connection. Provide at least one connection strip for each area of the substrate that is separated by a movement joint or bridge the joint with a flexible Copper-strip loop.

The conductive system must be earthed by an electrician according to VDE regulations.

Consumption:

At present, usage and quantity recommendations are available for the following products:

Product Name	Quantity	Conductive Additive	Water
codex Power RX 8	25 kg	2,5 kg	5 – 6 l
codex Power CX 3	25 kg	2,5 kg	5 – 6 l
codex Power RX 6 Turbo	25 kg	2,5 kg	4 – 5 l
Anti-Slip UZIN U 1000	10 kg	2,5 kg	not applicable
Anti-Slip UZIN U 2100	10 kg	3,5 kg	not applicable

Important Notes:

- ▶ Shelf life minimum 9 months in original packaging when stored in relatively cool conditions. Protect from frost. Carefully and tightly reseal opened containers and use the contents as quickly as possible.
- ▶ For conductive systems with resilient floor coverings, e.g. linoleum, in addition to the wall strips, a parallel copper-strip under each sheet width or row of tiles is required.
- ▶ Tiles that have full (vertical) conductivity can be grouted with normal grout mortars.
- ▶ For small format tiles that are not themselves conductive, conductivity can only be introduced in the grout. Therefore, fill the full depth of the joint with conductive grout material to ensure contact with the conductive adhesive mortar.
- ▶ For floor coverings that are to be installed conductively, refer primarily to the installation instructions of the covering manufacturer.
- ▶ With the correct dosage, a conductivity of $< 3 \times 10^5 \Omega$, in accordance with DIN EN 13 415, can be achieved in the dry adhesive or mortar.
- ▶ With Conductive Additive, the electrical conductivity is incorporated into the appropriate installation material on the project site. The additive can change the technical properties of the original product. Therefore, if necessary, check the performance of the products that have been made conductive by carrying out your own tests.
- ▶ The following standards, regulations and publications are applicable and especially recommended:
 - DIN 18 365 "Working with floor coverings"
 - DIN 18 56 "Working with wood flooring"
 - TKB publication "Assessment and preparation of substrates for floor covering and wood flooring 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 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.