

Conductive Additive

UZIN PE 262 L

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

Description:

Electrically conductive dispersion concentrate for incorporating electrical conductivity in UZIN dispersion products and cement mortars.

Amongst others for use in:

- ▶ UZIN U 1000 Anti-Slip
- ▶ UZIN thin- and medium-bed mortars

as well as in other UZIN products recommended as suitable.

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. It may be used only in UZIN products specifically designated as suitable and for this, please obtain technical advice.

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



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.

Technical Data:

Packaging:	plastic canister
Packsize:	5 kg
Shelf life:	minimum 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:

Before installing conductive floor coverings, a conductive system must be applied to the substrate that must later be connected to earth by an electrician in accordance with local regulations. If not otherwise prescribed by the covering manufacturer, the following guidelines apply:

With UZIN Copper-strip: Stick self-adhesive UZIN Copper-strip to the substrate centrally along each sheet width or row of tiles and from wall to wall. At approx. 25 cm from the walls, connect the strips with a cross-strip fixed at right-angles. For approx. every 30 m², leave one strip projecting for use as an earth connection.

With UZIN PE 260 L: With many textile and resilient coverings, the liquid Conductive Primer UZIN PE 260 L can be used instead of the Copper-strip system.

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.

Consumption:

At present, usage and quantity recommendations are available for the following products:			
Product Name	Quantity	Conductive Additive	Water
codex Power Grip	25 kg	2.50 kg	5 – 6 litres
codex Power Flex	25 kg	2.50 kg	5 – 6 litres
codex Power Flex Turbo	25 kg	2.50 kg	4 – 5 litres
Anti-Slip UZIN U 1000	10 kg	1.5 – 2.0 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 packaging 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.
- ▶ The following standards and notices are applicable and especially recommended:
 - DIN 18 365 "Working with floor coverings"
 - DIN 18 352 "Working with large and small format tiles"
 - Publication by the Adhesives Industry Association "Assessment and preparation of substrates – adhesion of resilient and textile floor coverings"
 - TKB publication "Assessment and preparation of substrates for floor covering and parquet installation" 06/2004
 - 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. When fully dried, has a neutral odour and presents no physiological or ecological risk.

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.