

Conductive 2-K reaction resin mortar

codex Epo Tix L

Conductive epoxide resin mortar for bonding and jointing conductive ceramic coverings

Areas of application:

The product is a conductive 2K epoxy jointing mass / adhesive mass for laying and grouting conductive, ceramic tile flooring. For use in areas in which possible electrostatic charges have to be conducted away safely and where the highest of demands are made concerning resistance to chemicals, abrasive water, fuels, oils, etc. Suitable for interior and exterior wall / floor coverings.

codex Epo Tix L meets the RG classification in accordance with the requirements of DIN EN 13 888 and R2T as well as DIN EN 12 004.

Suitable for:

- ▶ laboratories, laboratory tables
- ▶ battery rooms
- ▶ computer rooms
- ▶ operational rooms
- ▶ galvanisation works
- ▶ heated floors

Product Properties / Benefits:

codex Epo Tix L is an epoxy-based reaction resin grout with excellent resistance to chemical exposure and mechanical

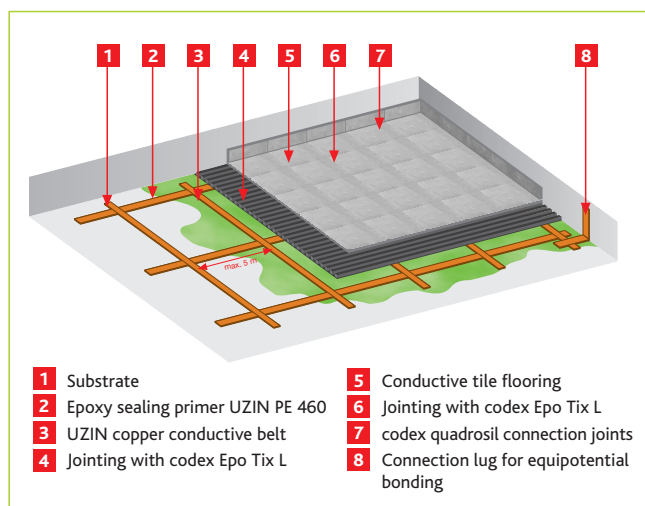


CE
UZIN UTZ AG Dieselstraße 3 D-89079 Ulm 08
EN 12 004 Reaction resin adhesive for interior and exterior wall and floor coverings
Fire resistance E
R2



stress. Through the use of additional materials which are conductive, when used in conjunction with conductive tiles, electrostatic charges can be channelled away safely.

- ▶ For joint widths of 3 – 15 mm
- ▶ Conductive
- ▶ Can be formed as a slurry and sprayed
- ▶ High level of flank adhesion
- ▶ Can be easy emulsified and washed
- ▶ Resistant to chemicals and waterproof
- ▶ Resistant the mechanical stress
- ▶ Solvent-free
- ▶ Tested in accordance with DIN EN 12 004



Technical Data:

Packaging:	metal container
Packsize:	6 kg units
Shelf life:	12 months
Colour:	black
Adhesive bed thickness:	2 mm min
Resistance to earth:	≤ = 10 ⁶ Ω
Mixing ratio:	A : B = 2.64 : 1
Working temperature:	+ 10 °C to + 25 °C / + 50 to + 77 °F
Pot life:	approx. 50 minutes*
Set to foot traffic:	approx. 1 day*
Resistant to mechanical wear:	approx. 1 day*
Resistant to:	after approx. 5 days*

*At 23 °C / 73 °F and 50 % rel. humidity.

Surface Preparation:

Conductive Tile Laying:

Before laying tiles with codex Epo Tix L, check the substrate corresponding to the jointly applicable standards and data sheets. In the case of defects, report your concerns to us. If necessary, mechanically pre-treat and clean smooth concrete surfaces or poorly adhesive/weak layers, so that they are free from dust. Depending on its nature and characteristics, prepare the substrate with appropriate primers and fillers from the codex product range.

Prime mineral surfaces using UZIN PE 460 epoxy sealing primer and on top of this lay the conductive tiles within 3 days using codex Epo Tix L. In the case of waiting periods lasting over 3 days, UZIN pearl sand has to be copiously strewn onto the UZIN PE 460 epoxy primer in a fresh state and vacuumed after complete hardening.

For areas up to 25 m², it is sufficient to embed a copper band which is approx. 1 m in length into the conductive adhesive mortar and to let it stick out as a connection lug. For larger areas, create a conduction system using UZIN copper conductive belts.

In addition stick copper belt strips over the cross as a surface grid on the substrate with parallel strips at a maximum distance of 5 m to one another. Connect the ends of the strips through cross strips allowing a distance to the wall of approx. 25 cm. Stick the crossing points so that they are conductive. Allow a lug to stick out for approximately each 30 m² section of the floor. Each section of the surface separated by movement joints has to be provided with at least one connection lug or joints which are bridged using a flexible fabric loop incorporating a copper belt. The copper conductive belts should only be connected to the equipotential bonding by an electrician.

Conductive jointing:

The tile joint must be free of dust and mortar residue. Scratch mortar remains out of the joints to an even depth and clean the covering thoroughly. The grout / tile adhesive must be cured and dry.

Observe the product data sheets of the jointly used codex products.

Processing:

- Mixing:** Prior to use, bring the material to room temperature. Add hardening components B to the basis components A so that no product remains and mix thoroughly for at least 2 minutes with a suitable stirring device. For this, use a slow running drill with the UZIN special stirrer. In order to avoid unmixed material in the wall and floor area of the mixing container, decant into an empty container and stir again thoroughly.
- Laying:** On the surface, scratch the mixed codex Epo Tix L 2-K reaction resin mortar using the trowel to a sufficiently thick layer and then comb evenly using the notched trowel. With a slight twisting motion fully slide the conductive tiles into the adhesive bed.
- Jointing:** Feed the mixed codex Epo Tix L 2-K reaction resin mortar into the joint using the codex Epo jointing board and then wipe thoroughly clean in a diagonal direction. Immediately after jointing, pre-wash using the codex cleaning pad in circular motion. Then gather the dissolved material with a codex Epo sponge and clean the surface covering. Rinse out the sponge on a regular basis and change the washing water if necessary. To facilitate cleaning, 0.5 – 1% codex Epo Wash detergent can be added to the clean, warm water.

Remove any remaining residual film by cleaning thoroughly on the following day with codex Epo Clean and water. Any remaining residual film can make the risk of soiling more likely.

Consumption:

Bonding the tiles

Toothing	Approx. consumption
4 mm (C1)	2.0 kg/m ²
6 mm (C2)	2.8 kg/m ²
8 mm (C4)	3.5 kg/m ²

Jointing

Tile	Joint	Approx. consumption
11.5 x 24 cm	8 x 8 mm	1.0 kg/m ²
20 x 20 cm	5 x 5 mm	0.5 kg/m ²
30 x 30 cm	4 x 7 mm	0.3 kg/m ²

The figures quoted are in kg/m². The consumption amounts are approximate and based on our experience and thorough investigations. The actual consumption values may differ due to different covering surfaces as well different construction site conditions and processing conditions.

Important information:

- ▶ The original container can be stored in a moderately cool, dry storage environment for at least 12 months. The material may thicken when cold.
- ▶ The product is best applied at + 15 °C to 25 °C. Lower temperatures are disadvantageous for the processing consistency and delay the hardening. Higher temperatures accelerate the hardening period.
- ▶ Clean tools immediately after use using the codex Epo wash detergent. Hardened material can only be removed mechanically.
- ▶ In the case of exposure to chemicals, observe the list detailing the resistance levels.
- ▶ The requirements which the operator demands on the floor to be created have to be defined precisely.
- ▶ The product features described relate to codex Epo Tix L, not the surface which is laid.
- ▶ The tiles can also be laid with an approved cementing thin bed mortar with a lead additive depending on the level of strain/exposure and the type of covering.
- ▶ In the case of coverings with a rough or unglazed surface, wash as soon as possible after jointing in order to avoid the hardening of film. If possible, test the washability of the covering before jointing or apply a trial surface.
- ▶ When laying, ensure that the bedding covers the entire surface and in addition, use a technique which is appropriate.
- ▶ Protect freshly laid surfaces against dirt, solar radiation and heat, cold and frost.
- ▶ Documents which are jointly applicable and/or which, among others, require special attention include:
 - DIN 18 352 "Tile and slab work"
 - DIN 18 157 "Carrying out ceramic works using thin bed mortar"
 - ZDB bulletins:
 - "Coverings on cement screed surfaces"
 - "Coverings on calcium sulphate screed surfaces"
 - "Exterior coverings"
 - "Interface co-ordination"
 - BEB bulletins:
 - "Evaluation and preparation of substrates"
 - BEB worksheets KH-0/S, KH-1, KH-5, KH-6
 - AGI worksheets:
 - S 10 "Protection against chemical attack of structures with slab surfaces (acid protection construction), parts 1 – 4."
 - S30 "Electrically conductive flooring"

Protection of the Workplace and the Environment:

Solvent-free. Non flammable. Comp. A: Contains epoxy resin/Xi: Irritant. Comp. B: Contains amine hardener/Xi: Irritant. Both components: May cause irritations to eyes, skin or respiratory system. May cause sensitisation by skin contact. Use barrier cream, protective gloves and safety-goggles. After contact with skin, wash immediately with plenty of water and soap. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. In liquid form, "N/hazardous to the environment", therefore do not allow into drains, water courses or landfill.

Observe safety information on product label as well as safety data sheet. Once cured, has a neutral odour and presents no physiological or ecological risk.

Disposal:

Where possible, collect product residues and re-use. Do not empty into drains, sewers or ground. Empty, scraped and drip-free metal containers are recyclable. Liquid residues as well as containers with liquid residues are special waste, those with mixed and cured residues are Construction Waste. Therefore collect waste material, mix both components and allow to harden, then dispose as Construction Waste.