

2-Component Epoxy-Resin Grout and Adhesive

# codex Epo Floor

Coloured epoxy-resin compound for grouting and bonding ceramic floor coverings

## Description:

2-component epoxy-resin grout and adhesive for chemical resistant and water impermeable grouting of large and small format ceramic tiles and mosaics, as well as glass tiles and mosaics on interior and exterior wall and floor tiling.

Suitable for / on:

- ▶ swimming-pools, spa- and thermal- baths
- ▶ laboratories and laboratory tables
- ▶ catering kitchens and kitchen worktops
- ▶ butchers shops and slaughter-houses
- ▶ food industry
- ▶ textile and paper industries
- ▶ battery rooms
- ▶ sewage plants
- ▶ chemicals industry
- ▶ warm water underfloor heating

Especially suitable in areas with a highest demand on resistance against chemicals, aggressive liquids, fuels, oils, etc.

## Product Properties / Benefits:

codex Epo Floor is a coloured reaction resin grout mortar based on epoxy resin with a specially formulated consistency for economically grouting and bonding ceramic floor tiling. Viscous and rapid setting, with excellent resistance to weathering influences, water and chemicals, salts and mechanical wear.



Composition: Polyamine hardened epoxy resin.

- ▶ For joint widths from 3 – 10 mm
- ▶ Slurry or injection application
- ▶ High edge-adhesion
- ▶ Easy to emulsify and wash off
- ▶ Chemical resistant and waterproof
- ▶ Highly resistant to mechanical wear
- ▶ Solvent-free / water-free

## Technical Data:

Packaging:	metal combi-can
Packsize:	5 kg
Shelf life:	min. 12 months
Colours:	old grey
Mixing ratio:	A : B = 4 : 1 parts by weight
Working temperature:	10 °C – 25 °C / 50 °F – 77 °F
Working time:	approx. 50 minutes*
Mixing time:	approx. 2 minutes*
Set to foot traffic:	after approx. 1 day*
Mechanical wear resistance:	after approx. 1 day*
Chemical resistance:	after approx. 5 days*

\* At 20 °C / 68 °F and 65 % relative humidity.

## Subfloor Preparation:

The tile surfaces to be grouted must be free from dust, mortar and oil residues. Whilst still fresh, scrape any mortar residues out of the joint to a consistent depth. Then thoroughly clean the flooring. The tiling adhesive must be set and the surface dry.

## Application:

- Mixing:** Refer to the printed packaging for handling of the combi-can. Completely drain hardener B into base component A and mix thoroughly for at least 2 minutes. Use a slow speed drill with the UZIN Special Mixer. To avoid unmixed material on the floor and walls of the mixing container, decant the material into an empty container and thoroughly mix once again.
- Installation:** Apply an adequately thick coat of codex Epo Floor onto the subfloor with a smoothing trowel and then evenly "comb" through with a notched trowel.
- Grouting – slurry application:** Apply the grout mortar with the codex Epo Grout Board so as to fill the joint and then scrape off excess material by pulling diagonally across the direction of the joint.
- Washing:** Start washing off immediately after grouting. Put clean, lukewarm water into a bucket and, for streak-free cleaning, add 0.5 – 1 % codex Epo Wash detergent. Before washing, wet the grouted surface with a little of the washing water.
- After cleaning, the surface must have only a very thin film of water. For quick drying of the residual water, ensure good ventilation.
- Clean tools immediately after use with codex Epo Wash detergent. Hardened material can only be removed by mechanical means.

## Consumption:

### Grouting

Tile size / joint section	Approx. consumption	Approx. coverage per 5 kg can
Tiles 15 x 15 cm Joint 4 x 4 mm	0.8 kg/m <sup>2</sup>	6.3 m <sup>2</sup>
Split clinker 24 x 11.5 cm x 8 Joint 8 x 8 mm	1.0 kg/m <sup>2</sup>	5.0 m <sup>2</sup>
Tiles 20 x 20 cm Joint 5 x 5 mm	0.8 kg/m <sup>2</sup>	6.3 m <sup>2</sup>

### Bonding

Application	Notch	Consumption
Mid-format tiles up to 20 x 20 cm	6 mm (C2)	2.8 kg/m <sup>2</sup>
Large format tiles	8 mm (C4)	3.5 kg/m <sup>2</sup>

## Important Notes:

- ▶ Shelf life min. 12 months in original packaging when stored in relatively cool, dry conditions. The material can thicken when cold.
- ▶ Optimum working conditions are 15 – 25 °C/59 – 77 °F. Low temperatures adversely affect the working consistency and delay setting. High temperatures shorten the pot-life and setting time. Do not use at below 10 °C/50 °F.
- ▶ To ensure suitability in special applications, please request our Compatibility List.
- ▶ At working temperatures above 65 °C/149 °F, obtain technical advice.
- ▶ Waiting time between applications must be max. 24 hours. Apply the epoxy-resin adhesive not later than 3 days after application of the seal-coat.
- ▶ In tiling work on bonded seal-coats, ensure a solid bed is achieved and that the correct application method is used.
- ▶ Protect freshly installed surfaces from contamination, direct sunlight and the influences of heat, cold and frost.
- ▶ Clean tools immediately after use with water with codex Epo Wash detergent.
- ▶ The following standards are applicable and especially recommended:
  - DIN 18 352 "Working with large and small format tiling"
  - DIN 18 157 "Ceramic tile installation using the thin-bed method"
  - ZDB publications:
    - "Bonded damp-proofing"
    - "Coverings on cement screeds – heated"
    - "Coverings on cement screeds – unheated"
    - "Coverings on calcium sulphate screeds"
    - "Exterior coverings"
    - "Interface co-ordination"
  - BEB publications:
    - "Assessment and preparation of substrates"
  - BEB work-sheets KH-0/S, KH-1, KH-5, KH-6
  - AGI work-sheet S 10 "Protection of building structures with tiling against chemical attack" (acid protection), Parts 1 – 3

## Protection of the Workplace and the Environment:

Solvent-free. Non flammable. Comp. A: Irritant. Contains epoxy resin. Comp. B: Corrosive. Contains amine hardener. Both components: May cause irritations or burns to eyes, skin or respiratory system. May cause sensitisation by skin contact. Use barrier cream, protective gloves and safety-goggles. Provide good ventilation. 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. Observe safety information on product label as well as safety data sheet. Once cured, 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 containers are recyclable. 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.