

CODEX X-FUSION

Coloured epoxy resin grouting and bonding mortar

APPLICATIONS

3-component grouting and bonding mortar with decorative colour settings for installation and jointing of ceramic and natural stone flooring. The fine, closed and waterrepellent joint surface makes codex X-Fusion very easy to care for and extremely hygienic.

Suitable on floor and wall surfaces, in private and commercial areas such as bathrooms, showers, wellness areas, swimming pools and commercial kitchens.

Because of the high chemical resistance, codex X-Fusion can be used even in case of occasional or permanent contact with chemical substances, e.g. strong detergents, thermal water, etc. (note the resistance list).

codex X-Fusion can be used for interior and exterior applications.

LEED: Meets the LEED requirements in IEQ Credit (4.1) Low Emitting Materials - Adhesives and Sealants (LEED v4)

SUITABLE FOR USE ON

- ▶ Domestic ceramics, glazed vitrified tile, glazed vitrified tile, glass mosaic
- ▶ Natural stone, concrete and synthetic stones insensitive to discolouration
- ▶ Showers, baths, sauna and wellness areas
- ▶ Swimming pools, brine and thermal baths
- ▶ Commercial kitchens
- ▶ Balconies and terraces
- ▶ For use in residential, commercial and industrial construction

AVAILABLE COLORS



PRODUCT BENEFITS/FEATURES

- ▶ For joint widths from 2 – 20 mm
- ▶ Easy to process, simply washable
- ▶ Colour-stable
- ▶ chemical-resistant
- ▶ Closed, fine surface
- ▶ High flank adhesion
- ▶ Frost- and salt-resistant

TECHNICAL SPECIFICATIONS

Pack type	Comp. A+B: plastic bottles, Comp. C: In plastic bucket
Pack size	Delivery unit 3,5 kg, consisting of: Comp. A 0,688 kg, Comp. B 0,212 kg, Comp. C 2,6 kg
Shelf life	Comp. A+B: 12 months, Comp. C: 36 months
Minimum working temperature	+ 10 up to + 25 °C
Ideal working temperatures	+ 10 up to + 25 °C
Working Time/ Pot Life	90 minutes*
Set to foot traffic	after approx. 16 hours*
Full mechanical resilience	after approx. 2 days*
Setting time	after approx. 16 hours*
Final strength	after approx. 7 days*
Chemical load application	after approx. 7 days*

*At 23 °C and 55 % relative humidity.



SUBSTRATE PREPARATION

Installation:

Test the substrate in accordance with applicable standards and notices and report any deficiencies prior to installing tiles. Mechanically prepare smooth concrete surfaces, adhesion-reducing or weak layers and clean dust-free, if necessary.

Prepare substrate according to type and properties with suitable primers and levelling compounds from the codex range of products. Prime mineral-based substrates with epoxy sealing primer codex FG 550 and continue processing on it within 3 days using codex X-Fusion. Longer setting times require priming with epoxy sealing primer codex FG 550. After application, this is to be sanded with plenty of UZIN Quartz Sand. Allow primers to always dry completely.

Jointing:

The joint flanks must be dry, clean and free from substances that interfere with adhesive strength.

Scrape mortar residues uniformly deep from the joints while fresh. Then clean the floor covering thoroughly.

Joint tiles installed in the thin bed after sufficient drying time of the thin-bed mortar. Joint floor coverings installed in the thick bed only after the complete setting and drying of the mortar bed.

Observe the installation / processing directions of the floor covering manufacturers.

It is strongly recommended to carry out a test grouting on tile and natural stone coverings with surfaces for which there is no experience with epoxy joints. The surface of the covering should be tested for epoxy compatibility. Clean the grouted surface the next day with codex RZ 60 to check whether any epoxy resin film can be removed without residue.

Refer to the product data sheets for other codex products used.

APPLICATION

1. **Mixing:** Allow material to reach room temperature before use. Add hardener component B, base component A and colour sand C to the supplied container and mix thoroughly for at least 2 minutes.
2. **Installation:** spread codex X-Fusion with the notched trowel on the prepared substrate. Install the floor covering within the open time. Depending on floor covering and load, the buttering-floating process may possibly be used. Wedging may be required for larger or heavier floor covering.
3. **Jointing:** Fill joint compound with a codex joint trowel fully into the joint and scrape off well diagonally toward the joint direction. Codex X-Fusion can also be processed with the spray method using the codex professional spray gun.
4. Wash off the covering with a sponge or sponge board and clean water directly after jointing. Wet the jointed surface with a small amount of wash water for this purpose. Change the wash water regularly.

5. After cleaning, the jointed area must show only a thin film of water (avoid pooling or standing water). Provide good ventilation to promote quick drying of the residual water.
6. Clean tools immediately after use. Cured material can be removed only mechanically.

When mixing partial quantities, the individual components must be weighed exactly according to the mixing table (digital scales) to avoid mixing errors.

Mixing ratio	Powder	Comp. A	Comp. B
1 pack	2600 g	688 g	212 g
3/4 pack	1950 g	516 g	159 g
1/2 pack	1300 g	344 g	106 g
1/4 pack	650 g	172 g	53 g

IMPORTANT NOTES

- ▶ Store cool, dry and free from frost. Re-seal opened containers carefully and use contents as quickly as possible.
- ▶ Optimum processing at + 15 °C to + 25 °C, relative humidity 75 %. Cold and high humidity will delay whilst heat, dryness and absorbent substrates will accelerate the working and drying times.
- ▶ Grout mortar from the same batch should be processed to prevent colour variations of the grout mortars on a property.
- ▶ Protect freshly installed areas from draughts, direct sunlight, sources of heat and frost.
- ▶ Grout mortars with strong pigmentation may slightly face in exterior areas or major exposure to the weather. Grey tones should preferably be used therefore in these areas. The information and/or processing instructions of the floor covering manufacturers must be observed regarding the choice of suitable grout mortars.
- ▶ Acidic cleaners should only be used after complete setting, otherwise spots may occur. If necessary, perform trial cleaning at a hidden location.
- ▶ Follow the processing stipulations of the cleaning agent manufacturer, amongst others, regarding dilution ratio and time allowed to react.
- ▶ The following apply as well, amongst others, or are recommended for special consideration:
 - DIN 18 352 "Tile and slab work"
 - DIN 18 157 "Ceramic work in thin bed processes"
 - ZDB bulletins:
 - "Floor coverings from tiles and slabs outside of buildings"
 - "Movement joints in covering and flooring from tiles and slabs"
 - "Ceramic tiles and slabs, natural stone and concrete blocks on heated floor constructions"

SEALS OF QUALITY & ECOLABELS

- ▶ Solvent-free
- ▶ EMICODE EC 1 R PLUS / Very low-emission

CONSUMPTION

Comp. A: epoxy resin, Comp. B: amine hardener, mineral aggregates and additives.

PROTECTION OF THE WORKPLACE AND ENVIRONMENT

Solvent-free. Non flammable. Comp. A: Contains epoxy resin/irritant. Comp. B: Contains amine hardener/corrosive. Both components: May cause irritations or burns to eyes, skin or respiratory system. May cause sensitisation by skin contact. 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. Use barrier cream, protective gloves and safety-goggles. In liquid form, "hazardous to the environment", therefore do not allow into drains, water courses or landfill. Comp. C: Contains quartz sand. When mixing wear a protective dust-mask. Observe safety information on product label as well as safety data sheet. Once cured, has neutral odour and presents no physiological or ecological risk. EMICODE EC 1 R PLUS – very low emission.

DISPOSAL

Where possible, collect product residues and re-use. Do not allow dispersal into drains, sewers or ground. Empty, scraped and drip-free 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. Therefore collect waste material, mix both components and allow to harden, then dispose as Construction Waste.