

CODEX X-FUSION

Coloured epoxy resin grouting and bonding mortar

AREA OF APPLICATION

3-component grouting and bonding mortar with decorative colour settings for installation and jointing of ceramic coverings. 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 for interior and exterior use.

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).

SUITABLE FOR

- ▶ Earthenware, stoneware, fine stoneware, glass mosaic
- ▶ 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



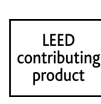
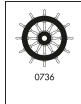
PRODUCT BENEFITS/FEATURES

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

TECHNICAL SPECIFICATIONS

Pack type	plastic bottles, plastic bucket
Pack size	3.5 kg
Shelf life	comp. A+B: 12 months comp. C: 36 months
Joint width	2 to 20 mm
Minimum working temperature	+ 10 to + 25 °C
Ideal working temperatures	+ 10 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*
Consumption	0.3 - 1.3 kg/m ² (grouting)

*At 23 °C and 50 % relative humidity.



SUBSTRATE PREPARATION

Installation:

Test the substrate in accordance with applicable standards and bulletins 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 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.

PROCESSING

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. Follow this by refilling and mixing once more thoroughly.
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 TABLE

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 in a cool, dry and frost-free place. Seal opened containers carefully and use up the contents promptly.
- Best applied at temperatures between +15 °C and +25 °C, with relative humidity up to 75 per cent. Cold temperatures and high humidity extend the application and drying times, whilst heat, dry conditions and absorbent substrates shorten them.
- For joint widths exceeding 12 mm, seek advice on application techniques.
- To avoid colour variations in the joint mortar on a single site, use joint mortar from a single batch wherever possible.
- Protect freshly laid surfaces from draughts, direct sunlight, heat and frost.
- Outdoors or in areas subject to severe weathering, highly pigmented grouts may fade slightly. Therefore, it is advisable to use grey shades in these areas. When selecting suitable grouts, follow the specifications and/or application instructions provided by the flooring manufacturer.
- Do not use acidic cleaners until the grout has fully cured, as this may otherwise cause staining. If necessary, carry out a test cleaning on an inconspicuous area.
- Follow the cleaning product manufacturers' instructions for use, including those regarding dilution ratios and contact times.
- Take into account generally accepted rules of the trade and technology for the installation of tiles and natural stone, as well as the applicable national standards and technical guidelines (e.g. EN, DIN, VOB, ÖNORM, SIA, Ceruniq, etc.).
- The following standards and guidance notes, amongst others, are also applicable or recommended for particular attention:
 - DIN 18 352 "Tiling and slab work"
 - DIN 18 157 "Ceramic work in thin-bed method"
 - ZDB technical guidelines:
 - "Tile and slab floor coverings outside buildings"
 - "Expansion joints in cladding and coverings made of tiles and slabs"
 - "Ceramic tiles and slabs, natural stone and engineered stone on heated floor structures"

BG Verkehr

- Approval for shipbuilding in codex OS 1 (codex Ocean System 1 for floors and walls), MED approval no. SEE0736P0004651, USCG approval no. 164.117/EC0736/SEE0736P0004651 for floors and MED approval no. SEE0736P0004634, USCG approval no. 164.112/EC0736/SEE0736P0004634 for walls. Wet application rate for codex X-Fusion: max. 900 g/m². Additional components in codex OS 1: codex Power CX 7 and codex FG 370 with porcelain stoneware tiles (max. 8 mm). Total thickness: approx. 10 mm.
- Approval for shipbuilding in codex OS 2 (codex Ocean-System 2 for floors and walls), MED approval no. SEE0736P0004642, USCG approval no. 164.117/EC0736/SEE0736P0004642 for flooring and MED approval no. SEE0736P0004626, USCG approval no. 164.112/EC0736/SEE0736P0004626 for walls. Wet application rate for codex X-Fusion: max. 1700 g/m². Additional components in codex OS 2: codex Power CX 7 and codex FG 370 with glass mosaic (max. 4 mm). Total thickness: approx. 5 mm.

SEALS OF QUALITY & ECOLABELS

- Epoxy resin products, sensitizing
- EMICODE EC 1 PLUS / Very low emission

CONSTITUENTS

Comp. A: epoxy resin, Comp. B: amine hardener, Comp. C: 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.

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.