

CODEX POWER CX 7

Flexible thin-bed mortar with light filling materials for ceramic wall and floor coverings

AREA OF APPLICATION

Very efficient, low-slump, flexible, hydraulically setting light tile adhesive according to EN 12 004 C2 TE for increased requirements and S1 according to DIN EN 12 002. For the addition and installation of ceramic floor covering, also large format tiles and slabs and natural stone stones insensitive to discolouration on all substrates customary in construction. Due to the adjustable consistency, the tile floor covering can be installed using the thin-bed, medium-bed and fluid-bed methods. Levelling up to 15 mm thickness is also possible. Suitable for interior and exterior wall and floor surfaces.

SUITABLE FOR

- Fine and coarse ceramic tiles and slabs
- Large size tiles and plates
- Earthenware, Stoneware
- Clinker, fine stoneware
- Glass and porcelain tiles with rough backing

SUITABLE ON

- Cement and calcium sulphate screeds
- Mastic asphalt in interior applications
- Precast concrete
- Site-mixed concrete, prefabricated concrete parts older than 3 months
- Lime cement, cement and gypsum plaster
- Walls from porous and gas concrete, bricks, lime sand bricks and concrete blocks
- Gypsum carton and gypsum board plates
- Tile carrier elements, rigid foam panels
- UZIN Multimoll plates
- Heated floor construction



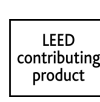
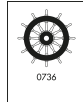
PRODUCT BENEFITS/FEATURES

- For thin-, medium- and flow bed installation
- Superb low-slump properties
- High yield
- Waterproof and frost resistant
- Up to 15 mm mortar bed thickness
- Ergonomic carry-handle

TECHNICAL SPECIFICATIONS

Pack type	paper bag
Pack size	14 kg
Shelf life	12 months
Color	grey
Minimum working temperature	+ 5 °C to + 25 °C
Ideal working temperatures	+ 10 °C to + 25 °C
Water quantity required	Thin-bed: 7.6 litre/ 14 kg Medium-bed: 7.3 litre/ 14 kg Flow-bed: 8.4 litre/ 14 kg Smoothing: 7.6 litre/ 14 kg
Working Time/ Pot Life	approx. 2.5 hours*
Working time	approx. 30 minutes*
Set to foot traffic	after approx. 12 hours*
Ready for jointing	after approx. 12 hours*
Resilient	after approx. 3 days*
Final strength	after approx. 28 days*
Consumption	1.1 - 2.7 kg/m ²

*At 23 °C and 50% rel. humidity.



SUBSTRATE PREPARATION

The substrate must be sound, dry, flat, free of cracks, clean, load-bearing and free of materials that could impair adhesion strength.

Test the substrate in accordance with applicable standards or bulletins and report any deficiencies. Mechanically prepare smooth concrete surfaces, adhesion-reducing or weak layers and clean dust-free, if necessary. Prepare according to type and properties with suitable primers and levelling compounds from the codex range of products. Prime gypsum-based substrates.

Flowscreeds must be ground, vacuumed and primed. Allow primers to always dry completely. Heated screeds must be treated according to "Interface coordination for heated floor constructions" (heat drying, heating to accelerate readiness for covering).

For outdoor coverings, there must be a surface slope of at least 1.5 % for safe drainage. If necessary, plan a steeper slope for rough or structured coverings.

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

PROCESSING

1. Provide cold water, cast in powder while stirring vigorously and mix to a homogeneous mortar. Mix well again briefly after a short maturing time. Note pot life.
2. Using a smoothing trowel, spread a thin, continuous contact layer onto the substrate, top up with fresh mortar and comb evenly with a notched trowel. A largely full-surface bed is achieved by choosing the suitable tooth profile and application technique (e.g. buttering / float-ing).
3. Before the skin starts to form, push the tiles into the adhesive bed with a slight twisting motion and press down.
4. Do not stir or mix material that has already set with water or powder. Clean tools and soiled ceramics with water while fresh.
5. Joint floor covering only after sufficient setting and drying of the installation mortar. Avoid foot traffic too early.

COVERAGE

Notch size	Approx. consumption
C1, 4 mm	1.1 kg/m ²
C2, 6 mm	1.3 kg/m ²
C4, 8 mm	1.7 kg/m ²
C5, 10 mm	2.1 kg/m ²
12 mm	2.7 kg/m ²

IMPORTANT NOTES

- Store in a cool, dry place. Seal opened containers carefully and use 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, setting and drying times, whilst heat, dry conditions and absorbent substrates shorten them.
- Drying and strength development depend on climatic conditions.
- Protect freshly laid surfaces from draughts, direct sunlight and heat, as well as from moisture.
- For high application thicknesses (over 5 mm) on moisture-sensitive substrates, such as calcium sulphate screeds, a suitable codex barrier primer must be used.
- When laying large-format tiles and slabs, the relevant technical data sheets and specialist information from the 'Tiles and Natural Stone' trade association within ZdB e.V., as well as the applicable standards and regulations, must be observed.
- When laying large-format tiles larger than 0.6 m x 0.6 m on floor surfaces, a longer drying time may be required before the floor can be walked on or grouted.
- For areas subject to increased exposure to chemicals and acids, as well as on timber or chipboard, metal and plastics, use codex products in accordance with the current product overview or seek technical advice on application.
- For partial levelling/filling of uneven areas on floor/wall surfaces up to a maximum layer thickness of 10 mm.
- For drywall constructions and mastic asphalt screeds up to a maximum layer thickness of 5 mm.
- Underfloor heating systems supplied via the radiator connection return pipe must be fitted with a temperature limiter (< 38 °C).
- In outdoor areas, a proper Codex composite waterproofing system must always be applied. Preferably use stoneware tiles as the covering material. Weather cycles must be taken into account to ensure sufficient curing and drying of the coverings; otherwise, appropriate protective measures must be taken. For porcelain stoneware, seek technical advice on application.
- Observe generally accepted rules of the trade and technical practice 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, Cerunig, etc.).
- The following standards and technical guidelines, amongst others, are also applicable or recommended for particular attention:
 - DIN 18 352 "Tiling and slab laying
 - DIN 18 157 "Execution of ceramic work using the thin-bed method"
 - ZDB technical guidelines:
 - "Floor coverings on cement screed – heated"
 - "Floor coverings on cement screed – unheated"
 - "Floor coverings on calcium sulphate screed"
 - "Outdoor floor coverings"
 - "Interface Coordination for Underfloor Heating"
 - BEB information sheet:
 - "Assessing and preparing substrates"

BG Verkehr

- Approval for shipbuilding in codex OS 1 (codex Ocean System 1 for decks 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 Power CX 7: max. 2.1 kg/m². Additional components in codex OS 1: codex FG 370 and codex X-Fusion 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 Power CX 7: max. 1.1 kg/m². Additional components in codex OS 2: codex FG 370 and codex X-Fusion with glass mosaic (max. 4 mm). Total thickness: approx. 5 mm.

SEALS OF QUALITY & ECOLABELS

- Cement-based products, low-chromate in accordance with EU Regulation 1907/2006 (REACH)
- EMICODE EC 1 PLUS / Very low emission

CONSTITUENTS

Special cements, mineral aggregates, redispersible polymers and additives.

PROTECTION OF THE WORKPLACE AND ENVIRONMENT

Contains cement low in chromate acc. Regulation (EC) No. 1907/2006 (REACH). Cement produces strong alkaline on reaction with water. Avoid contact with skin and eyes. In the event of contact, rinse immediately with water. In the event of skin or eye irritation, seek medical advice. Use protective gloves. When mixing wear a protective dust-mask.

DISPOSAL

Where possible, collect product residues and re-use. Do not allow to get into drains, sewers or ground. Empty paper packaging is recyclable. Collect waste product, mix with water, allow to harden, then dispose as Construction Waste.