

Multi-Flex Mortar

# CODEX POWER CX 7

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

## APPLICATIONS

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 10 mm thickness is also possible. Suitable for interior and exterior all and floor surfaces\* With the widest range of applications from standard installation to special applications in the renovation sector.

LEED: Meets the LEED requirements in IEQ Credit (4.1) Low Emitting Materials (LEED v4)

## SUITABLE FOR USE ON

- ▶ For fine and coarse ceramic tiles and slabs
- ▶ Large size tiles and plates
- ▶ Domestic ceramics, glazed vitrified tile,
- ▶ Quarry tile, dust-pressed vitrified tile
- ▶ 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
- ▶ Old firm floor covering from tiles, natural stone and concrete slabs
- ▶ 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 support elements, rigid foam panels
- ▶ UZIN Multimoll mats
- ▶ Heated floor construction

\* see important notes



## PRODUCT BENEFITS/FEATURES

- ▶ Superb low-slump properties
- ▶ High yield
- ▶ waterproof and frost-resistant

## TECHNICAL SPECIFICATIONS

Pack size	14 kg
Shipping Unit / Pallet	54 bags
Shelf life	12 months
Color	grey
Minimum working temperature	+5 up to +30 °C
Ideal working temperatures	+15 up to +25 °C
Water quantity required	Thin-bed: 7,6 Liter/14 kg
	Medium-bed: 7,3 Liter/14 kg
	Flow-bed: 8,4 Liter/14 kg
	Smoothing: 7,6 Liter/14 kg
Maturing time	3 minutes*
Working Time/ Pot Life	approx. 2,5 hours*
Working time	approx. 30 minutes*
Set to foot traffic	approx. 12 hours*
Ready for jointing	after approx. 24 hours*

\*At 23 °C and 50 % relative humidity.



## SUBSTRATE PREPARATION

The substrate must be firm, dry, flat, free of cracks, clean, load-bearing and free of materials that could affect adhesive 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).

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

## APPLICATION

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 / floating).
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
4 mm, C1	1,1 kg/m <sup>2</sup>
6 mm, C2	1,3 kg/m <sup>2</sup>
8 mm, C4	1,7 kg/m <sup>2</sup>
10 mm, C5	2,1 kg/m <sup>2</sup>
12 mm	2,7 kg/m <sup>2</sup>

## IMPORTANT NOTES

- ▶ Store in a cool and dry place. Carefully and tightly re-seal opened packaging and use the contents as quickly as possible.
- ▶ Optimum processing at +15 °C to +25 °C, relative humidity 75%. Cold and high humidity will delay whilst heat and low humidity will accelerate the working, setting and drying time.

- ▶ Drying and strength development depend on the weather conditions. Weather cycles ensuring sufficient setting and drying of the coverings must be taken into account with exterior use; appropriate protective measures must otherwise be taken.
- ▶ Protect newly installed areas from drafts, direct sunlight and heat as well as wetness.
- ▶ For high application thicknesses (over 5 mm) on moisture-sensitive substrates such as calcium sulphate screeds, a suitable codex barrier primer should be used.
- ▶ For the installation of large-format tiles and slabs, the relevant data sheets and technical information of the "Fachverbandes Fliesen und Naturstein" in the ZdB e.V. (Association for Tiles and Natural Stone) as well as the applicable standards and regulations must be observed. Obtain technical application advice if necessary.
- ▶ Use codex products according to the current product overview for areas with increased exposure to chemicals and acids as well as on wood or chipboard panels, metal and plastics or solicit application consulting.
- ▶ Floor temperature control through radiator connection lines returns must be equipped with a temperature limiter (< 38 °C).
- ▶ Always apply a proper codex composite seal for external application. Glazed vitrified tiles are a preferred covering material. Weather cycles must be observed to ensure sufficient hardening and drying of the coverings, otherwise appropriate protective measures must be taken. Obtain application consulting for dust-pressed vitrified tiles.
- ▶ For partial levelling / filling of unevenness on floor / wall surfaces up to max. 10 mm layer thickness.
- ▶ For drywall constructions and mastic asphalt screeds up to max. 5 mm layer thickness.
- ▶ 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 (Central Association of the German Construction Industry) bulletins:
    - "Coverings on cementitious screed – heated"
    - "Coverings on cementitious screed – unheated"
    - "Coverings on calcium sulphate heated screed"
    - "Exterior coverings"
    - "Underfloor heating interface coordination"
  - BEB bulletin:
    - "Assessment and preparation of substrates"
- ▶ Low chromate content acc. Regulation (EC) No. 1907/2006 (REACH)
- ▶ EMICODE EC 1 R PLUS / Very low-emission

## COMPOSITION

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. Presents no physiological or ecological risk when fully cured. EMICODE EC 1 R PLUS – very low emission.

## **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.