Product Datasheet

Variable 2-component thin-bed mortar

CODEX POWER XTRA-TIME

Cementitious Flex thin-bed mortar with variably adjustable working time

APPLICATIONS

Flexible thin-bed mortar with variably adjustable working time for installing ceramic tiles and natural stone floor coverings insensitive to discolouration.

By dosing the B-component, the working time can be optimally adjusted for the respective application area and construction site conditions. Ideal for controlling the working time at different ambient temperatures.

codex Power Xtra-Time meets the requirements of EN 12 004 C2 F S1. Unevennesses up to a thickness of 10 mm in the installation substrate can be compensated for in a single layer.

Areas of use are residential, commercial and industrial buildings, indoor and outdoor use.

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

PRODUCT BENEFITS/FEATURES

- Easy processing
- Easy to dose
- Precise settings of the working time
- Optimal for fast construction progress

SUITABLE FOR

- Large size tiles and plates
- Fine and coarse ceramic tiles and slabs
- Earthenware, stoneware, fine stoneware
- Natural stone and concrete slabs resistant to deformation and discolouration
- Glass and porcelain tiles with rough backing
- Compound-suitable insulation and light building boards

SUITABLE ON

- Gypsum carton and gypsum board plates
- Lime cement, cement and gypsum plasters
- Walls from brick, gas concrete, lime sand brick
- Tile carrier elements
- Site-mixed concrete, prefab concrete elements (at least 6 months old)
- Calcium sulphate and cement screeds
- Compound-capable dry construction elements
- Sanded mastic asphalt
- Heated floor constructions

TECHNICAL SPECIFICATIONS

Pack type	paper bag, plastic bottle
Pack size	comp. A 25 kg powder, comp. B 1 l retarder
Shelf life	comp. A 6 months comp. B 24 months
Minimum working temperature	+ 5 °C to + 25 °C
Ideal working temperatures	+ 10 °C to + 25 °C
Water quantity required	0.28 - 0.32 litres per kg powder 15 - 40 ml solution per litre mixing water
Working Time/ Pot Life	35 - 75 min*
Set to foot traffic	60 min. after end of pot life*
Ready for jointing	60 min. after end of pot life*
Resilient	after approx. 48 hours*
Final strength	after approx. 72 hours*

*At 23 °C and 50% rel. humidity.

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CODEX POWER XTRA-TIME

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.

APPLICATION

1. Provide cold, clean water, dose retarder* according to the desired working time, sprinkle 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. The covering is ready for foot traffic approx. 60 min after the end of the pot life.
5. Do not stir or mix material that has already set with water or powder. Clean tools and soiled ceramics with water while fresh.
6. Joint floor covering only after sufficient setting and drying of the installation mortar.

Mixing ratios for setting the pot life:

POT LIFE		Temperature				
		10°C	15°C	20°C	25°C	30°C
Addition of retarder (per liter of mixing water)	0 ml*	30 min	20 min	10 min	/	/
	5 ml*	50 min	35 min	20 min	15 min	/
	10 ml*	70 min	55 min	30 min	20 min	10 min
	15 ml	90 min	80 min	40 min	30 min	15 min
	20 ml	110 min	100 min	50 min	35 min	20 min
	25 ml	/	120 min	60 min	40 min	25 min
	30 ml	/	/	70 min	45 min	30 min
	35 ml	/	/	80 min	50 min	35 min
	40 ml	/	/	90 min	55 min	40 min

* Due to the partly short pot life, individual values are outside EN 12004.
The surface is ready for foot traffic approx. 60 min. after the end of the pot life.

COVERAGE

Notch size	Approx. consumption
C1, 4 mm	1.5 kg/m²
C2, 6 mm	2.0 kg/m²
C4, 8 mm	2.6 kg/m²
C5, 10 mm	3.0 kg/m²

IMPORTANT NOTES

- Store in a cool and dry place. Carefully and tightly reseal opened packaging and use the contents quickly.
- Optimum processing at + 15 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.
- The temperatures in the table refer to powder, water and ambient temperature.
- 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 (max. 38 °C).
- Always apply proper codex composite seal for external applications. Glazed vitrified tiles are a preferred covering material. Obtain application consulting for dust-pressed vitrified tiles.

The above information is based on our experience and careful investigations. The variety of associated materials and different construction and working conditions cannot be individually checked or influenced by us. The quality of your work depends, therefore, on your own professional judgement and product usage. If in doubt, conduct a small test or obtain technical advice. Observe the installation recommendations of the covering manufacturer. The publication of this datasheet invalidates all previous Information. The respective updated version of this datasheet can be found on our website: www.codex-x.com | 06/2023

- 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:
    - "Coverings on cementitious screed – heated"
    - "Coverings on cementitious screed – unheated"
    - "Coverings on calcium sulphate heated screed"
    - "Exterior coverings"
    - "Interface coordination"
  - BEB bulletin:
    - "Assessment and preparation of substrates"

SEALS OF QUALITY & ECOLABELS

- Low chromate content acc. Regulation (EC) No. 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

Comp. A: 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 dustmask. Presents no physiological or ecological risk when fully cured. Comp. B: Warning. Causes serious eye irritation. Wear protective gloves/eye protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. 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 paper packaging is recyclable. Containers with liquid residue, as well as the liquid product, are classed as Special Waste. Collect waste product, mix both components, allow to harden, then dispose as Construction Waste.

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