Product Datasheet

Fine levelling mortar

CODEX FM 344

Low-slump levelling mortar for layer thicknesses from 1.5 mm to 30 mm

AREA OF APPLICATION

Stable, fast-setting levelling mortar with light-weight fillers for layer thicknesses from 1.5 mm to 30 mm. For levelling, plastering and filling uneven surfaces, chipped-off areas and depressions on absorbent mineral substrates, for producing slopes in areas of drains and gutters and for levelling uneven steps on concrete stairs. Suitable as substrate for installing tiles and natural stone coverings. Used for interior and exterior floors, walls and ceiling surfaces.

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

SUITABLE FOR

- Wall and floor surfaces
- Wet rooms, permanently wet and underwater areas
- Balconies and terraces
- Slope levelling e.g. for tiled showers
- Residential, commercial and industrial areas

SUITABLE ON

- Cement, lime cement plaster
- Masonry
- Site-mixed concrete (6 months), prefabricated concrete components (3 months)
- Cement screeds
- Sanded mastic asphalt screeds (max. 10 mm)
- Load-bearing old substrates
- Heated floor and wall constructions

PRODUCT BENEFITS/FEATURES

- High yield
- Waterproof and frost-resistant
- Easy to process
- Quick drying
- With light filling materials
- Low-tension

TECHNICAL SPECIFICATIONS

Pack type	paper bag
Pack size	25 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	0.2 - 0.26 litres/ kg 5 - 6.5 litres/ 25 kg
Working Time/ Pot Life	approx. 30 minutes*
Set to foot traffic	after approx. 1.5 hours*
Ready for covering	with tiles: after approx. 2 h with natural stone: after approx. 24 h
Final strength	after approx. 28 days*
Consumption	approx. 1.3 kg/m²/mm layer thickness

*At 23 °C and 50% relative humidity.

GEV-EMICODE EC 1 PLUS very low emission

LEED contributing product

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CODEX FM 344

SUBSTRATE PREPARATION

The substrate must be sound, dry, free from cracks, clean, load bearing and free from materials that would impair adhesion. Test the substrate in accordance with applicable standards and bulletins and report any deficiencies. 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 from the codex range of products. Slightly pre-wet absorbent cementitious substrates (e.g. holes and pipe grooves). Priming is not absolutely essential, but is recommended. Allow primers always to dry completely.

The use of suitable plastering strips is recommended for larger areas.

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

PROCESSING

1. Prepare cold, clean water in a clean container, add powder and mix to a lump-free mortar with a stirrer. Allow to mature for approx. 3 minutes, then stir well once more. Note pot life.
2. To achieve optimum adhesion, we recommend applying a contact layer first, then the mortar at the required thickness fresh in fresh. codex FM 344 can be cast onto the substrate or applied with the smoothing trowel and then levelled with a straightedge. Levelling layers should be applied as single layers.
3. After the mortar has set, the surface can be reworked by scratching, scraping or levelling.
4. Clean tools with water while residues are fresh

READY FOR COVERING

Layer thickness	Ready for Covering
up to 30 mm	with tiles, after approx. 2 hours*
up to 30 mm	with natural stone, after approx. 24 hours* (complete drying)

IMPORTANT NOTES

- Store in a cool, dry place. Seal opened containers tightly and use up the contents quickly.
- Best used at +10 to +25 °C. Low temperatures delay, higher temperatures shorten the drying time and readiness for covering.
- When laying natural stone that is sensitive to moisture and staining, wait until the levelling compound has dried completely.
- Do not dilute thickening mortar with water or mix with dry mortar.
- Protect freshly levelled surfaces from draughts, sunlight, heat and rain.
- Leaving cementitious levelling layers exposed for too long promotes cracking and should therefore be avoided. The surfaces must be covered within 14 days.
- If levelling is to be carried out in several layers, an intermediate primer coat is required. Subsequent layers must always be thinner than the previously applied layer. Do not exceed the total layer thickness of the levelling compound.
- In areas subject to moisture, such as public showers, swimming pools, etc., a composite seal must be applied after application.
- Observe the generally acknowledged rules of the trade and technology for tile and natural stone laying as well as the respective applicable national standards and data sheets (e.g. EN, DIN, VOB, ÖNORM, SIA, Ceruniq, etc.).
- The following standards and bulletins apply as well, amongst others, or are recommended for special consideration:
  - DIN 18 352 "Tile and slab work"
    - DIN 18 157 "Execution of ceramic work using the thin-bed method"
    - DIN 18 195 "Building waterproofing"
  - ZDB information sheets:
    - "Ceramic tiles and slabs, natural stone and cast stone on heated floor constructions"
    - "Floor coverings made of tiles and slabs outside buildings"
    - "Movement joints in cladding and coverings made of tiles and slabs"
    - "Mechanically highly resilient floor coverings made of tiles and slabs"
    - "Composite waterproofing"
  - BEB information sheet:
    - "Assessing and preparing 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

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.

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.

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 | 04/2025