Product Datasheet

Rapid screed mortar

CODEX EX 24 TURBO

Pre-mixed dry mortar for fast setting, low-shrinkage cement screeds with early readiness for covering

AREA OF APPLICATION

Rapid drying pre-mixed screed for producing bonded screeds and screeds on separating membranes or floating screeds on insulation. Suitable for subsequent coverings such as ceramics, natural stone, parquet, linoleum or textile coverings. Expediting installations without substantial interruptions are possible because of the rapid walkability of 8 hours. Serves as problem solver on building sites under time pressure and for renovations or work in used buildings. For interior and exterior application.

Mixed only with water, therefore ideal for fast screed repairs and small areas where the mixing of cement and sand on site is not feasible.

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

SUITABLE FOR

- Bonded screeds
- Screeds on separating membranes
- Screeds on acoustic or thermal insulation
- Screeds with underfloor heating
- Damp or permanently wet areas (sealed)
- Residential and industrial buildings
- Renovation and refurbishment work
- As a system component in high speed construction work

PRODUCT BENEFITS/FEATURES

- Only requires mixing with water
- Rapid setting
- Free from deformation and low stress
- Can be covered with tiles after 24 hours
- Easy to use

TECHNICAL SPECIFICATIONS

Pack type	paper bag
Pack size	25 kg
Shelf life	12 months
Color	grey
Thickness	from 20 mm to 100 mm
Ideal working temperatures	+ 5 to + 30 °C
Water quantity required	approx. 2 liters/ 25 kg
Working Time/ Pot Life	approx. 30 minutes*
Set to foot traffic	after approx. 8 hours*
Ready for covering	from approx. 24 hours*
Final strength	after 28 days*
Burning behaviour	A1 fl
Compressive strength	C 30
Bending tensile strength	F 6
Consumption	1.8 kg/m²/ mm layer thickness

*At 23 °C and 50% rel. humidity.

GEV-EMICODE EC 1 PLUS very low emission

C 30 DIN EN 13 813 F6

CE

LEED contributing product

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CODEX EX 24 TURBO

SUBSTRATE PREPARATION

The requirements and specifications for the substrate in accordance with DIN 18 560 “Screeds in the building industry” and DIN 18 353 “Screed work” must be followed.

Bonded screeds:

The substrate must be properly dry, load-bearing and suitable to receive a screed. A suitable barrier layer is required for rising moisture. Possible deformation of the substrate must be completed as much as possible.

The surface must be grippy, free from cracks and materials that would impair adhesion for a good adhesive bond. Brush, abrade, grind off or shot-blast any soft or weakly bonded surface areas, remove loose material and thoroughly vacuum the surface.

For composite screeds prepare a bonding slurry from 3 parts of codex EX 24 Turbo, 1 part of codex FG 300 and water as bonding agent. Brush the slurry on the substrate and construct the rapid screed mortar wet-in-wet on top of it.

Screeds on separating or insulating layers:

Incorporate the separating layers without folds and with adequate overlap at the joints. Install insulating materials on the substrate with adequate dynamic rigidity lying flat. Insulation, edges, bay joints and movement joints need to be planned and installed professionally. The screed may require reinforcement depending on the installation conditions.

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

Screed Thickness:

Ensure screed thickness is in accordance with DIN 18 560:

Compound screeds: min. 2 cm
On separating membrane: min. 4.5 cm
On insulation: min. 4.5 cm
Covering heating pipes: mind. 4.5 cm
Maximum thickness: 10 cm

PROCESSING

1. Pour cold, clean water into a suitable container, free fall mixer or screed mixer and mix in the dry mortar. Adjust the consistency to be plastic. Do not mix too thin or slightly moist or damp. Max. mixing time 3 minutes.
2. Only mix as much mortar as can be worked within approx. 30 minutes. At breaks in work, immediately empty and clean out mixer, pumps and hoses. Do not mix partially stiff screed mortar any more by adding more water.
3. Deliver, distribute, compact and smooth, if necessary, the mortar very quickly. Take into account the rapid setting.

READY FOR COVERING

Planned Top Layer	Layer Thickness	Ready for Covering
Tile/natural stone coverings	up to 45 mm	approx. 24 hrs*, max. 4 CM %
Textile/elastic coverings, e.g. PVC, linoleum, rubber	up to 45 mm	approx. 4 days*, ≤ 3 CM %
Wood flooring	up to 45 mm	approx. 7 days*, ≤ 2 CM %
Heated screeds	up to 45 mm pipe covering	according to Heating protocol, ≤ 2 CM %

*At 23 °C and 50 % rel. humidity. **The CM measurement is to be carried out with a weight of 50 g over the entire screed cross-section. Shake for 1 minute and read off the value after another 10 minutes.

IMPORTANT NOTES

- Store in a cool and dry place. Re-seal opened containers carefully and use contents as quickly as possible.
- Optimum working conditions are 15 – 25 °C and relative humidity below 75%. Low temperatures, high humidity and greater thickness will delay, whilst high temperatures will accelerate the setting, drying and readiness for covering. In summer, store in cool conditions and use cold water.
- Readiness for covering and set strength depend on, amongst other things, the water quantity used. Low water quantity result in a stiffer consistency but, with good compaction, higher strength and faster drying. Too much water reduces the strength, delays drying, increases shrinkage and the risk of cracking.
- Do not use in underwater areas.
- Connect screed joints or sections in the normal way using steel anchors. Ensure day-joints and movement joints are professionally made.
- Heat drying: When used as heated screed with conventional underfloor heating, you can start heating up after 72 hours. The flow temperature of approx. 25 °C must be maintained for 3 days, then raise the temperature to the max. rated temperature. Maintain maximum temperature for at least 4 days, then allow to cool to room temperature. Initial temperature increase and decrease must be performed before installing the top cover. The heating constructor shall maintain a corresponding protocol on this process. A heating protocol is available upon request or via the Internet. Allow the screed to cool down on ambient temperature before laying the covering.
- Do not mix with any additives or other cements.
- Pipes and cables must not be brought through the body of the screed.
- On construction sites with draughts or exposure to direct sunlight, the freshly laid screed should be covered with a foil (1 day) to avoid drying out too quickly. In external areas, protect screed from rain.

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 | 12/2025

- 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 EN 13 813 "Screeds material and floor screeds"
  - DIN 18 352 "Tile and slab work"
  - DIN 18 157 "Ceramic work in thin bed processes"
  - DIN 18 365 "Working with floor coverings"
  - DIN 18 353 "Working with screeds"
  - DIN 18 195 "Sealing buildings"
  - DIN 18 560 "Screeds in the building industry"
  - BEB bulletin:
    - "Instructions for the laying of cement screeds".
  - ZDB bulletins:
    - "Pipes, cables and cable ducts on bare floors"
    - "Interface coordination with heated floor constructions"

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.

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