

codex Medium-Bed Trass Mortar

Hydraulic-setting, plasticised, medium-bed mortar with added trass

Description:

Smooth and compact medium-bed mortar in accordance with DIN EN 12 004 C1 T especially for installation of large format and thick tiles, with greater thickness tolerance, heavily profiled backings or tiles with a greater mortar requirement. For interior and exterior use on walls and floors.

Suitable amongst others for:

- ▶ fine and coarse ceramic tiles
- ▶ cotto hand-formed or brick- tiles
- ▶ natural and artificial stone tiles with low tendency for deformation or discoloration
- ▶ bonded insulation- and light construction- boards
- ▶ smoothing work on walls and floors
- ▶ typical medium-bed applications

Suitable on:

- ▶ cement- and gypsum- screeds and mastic asphalt compliant with standards
- ▶ reaction resin screeds made from codex ER 100 and UZIN XS Sand
- ▶ in-situ concrete, pre-cast concrete (min. 6 months old)
- ▶ cement-lime render, cement render and plaster
- ▶ bonded and load bearing dry construction
- ▶ UZIN Multimoll board
- ▶ tiling boards
- ▶ flush pointed masonry work of brick, concrete block, breeze-block, limestone

Addition of codex Power Mix produces an especially adhesive and deformable flex-medium-bed-mortar, e.g. for use on warm water underfloor heating systems.



Product Properties / Benefits:

Plasticised tiling mortar with a wide range of applications for installation using the medium-bed method. With the addition of trass, efflorescence and discoloration in the installed tiling is greatly reduced.

Composition: Trass powder, Portland cement, mineral aggregates, polyvinylacetate copolymers and stabilisers.

- ▶ Smooth and easy to apply
- ▶ Load bearing even with large format and heavy tiles
- ▶ Added trass to combat efflorescence and discoloration
- ▶ Waterproof and frost-resistant
- ▶ 3 to 20 mm mortar bed thickness
- ▶ Low chromate content

Technical Data:

Packaging:	paper sack
Packsize:	30 kg
Shelf life:	min. 12 months
Mortar colour:	light grey
Mixing water:	approx. 7 litres per 30 kg sack
Working temperature:	5 °C to 25 °C / 41 °F to 77 °F
Working time:	approx. 4 hours*
Installation time:	approx. 25 minutes*
Ready for grouting:	after approx. 24 hours*, or after the mortar is set
Set to foot traffic:	after approx. 3 days**
Final strength:	after approx. 28 days*

* At 23 °C / 73 °F and 50 % rel. humidity.

** No traffic or transportation of goods (see Application Item 6).

Substrate Preparation:

The substrate must be sound, dry, level, free from cracks, clean, load bearing, structurally stable and free from materials that would impair adhesion.

Test the substrate in accordance with applicable standards and notices and report any deficiencies. Where necessary, mechanically prepare smooth concrete surfaces, soft or weakly bonded surface areas and clean until dust-free.

Prepare the substrate according to type and condition with suitable primers and smoothing compounds from the codex Product Guide. Prime gypsum-based substrates. Flow-screeds must be abraded, vacuumed and primed. Always allow primers to dry thoroughly.

Application:

- Put approx. 7 litres of cold, clean water into a clean bucket and sprinkle in the contents of the sack (30 kg) whilst stirring vigorously. Blend to a smooth, lump-free mortar. For part quantities: 1 kg powder + approx. 230 ml water.
- Leave to stand for approx. 5 minutes. Then thoroughly mix once again.
- Using a smoothing trowel, scratch-apply a thin, fully sealed contact coat onto the substrate.
- Onto the still wet contact coat, evenly spread the mortar using the codex 16 or codex 20 notched trowel, or a medium-bed notched trowel. Only apply as much mortar as can be tiled within 25 minutes.
- Lay tiles into the mortar bed using a light twisting movement and press well down.
- Tiles can be grouted after approx. 24 hours or after the mortar is set. Load bearing for normal use, e.g. foot traffic, after approx. 3 days; full occupational use and loading only after final strength is reached (28 days).

Consumption:

Trowel Notch	Consumption in kg / m ²	Approx. coverage per 30 kg sack
C5, 10 mm square notch	4.6 kg / m ²	6.5 m ²
codex 16 notch	5.4 kg / m ²	5.6 m ²
codex 20 notch	7.1 kg / m ²	4.2 m ²
M1 medium-bed notch	7.8 kg / m ²	3.9 m ²

Differences in material consumption are possible according to surface condition (roughness, level, surface finish) and handling / position, as well as condition, of the notched trowel.

Important Notes:

- ▶ Shelf life min. 12 months in original packaging when stored in dry conditions. Carefully and tightly re-seal opened packaging and use the contents as quickly as possible.
- ▶ For areas with high exposure to chemicals or acids, as well as on wood or chipboard, metals and plastics, use codex products in accordance with the current Product Guide or obtain technical advice.
- ▶ Floor heating with a return line must be equipped with a temperature limiter (< 38 °C/ 100 °F).
- ▶ Optimum conditions are 15 – 25 °C/ 59 – 77 °F and relative humidity below 75 %. Cold and high humidity lengthen, whilst heat, dryness and absorbent surfaces shorten the working-, setting- and drying- times.
- ▶ Protect freshly prepared surfaces from draughts, direct sunlight and influences of heat and moisture.
- ▶ The more mortar is used under the tiles, the higher is the actual water content under the tiles. For tiles prone to efflorescence and discoloration, do not exceed mortar bed thickness of 4 mm where possible (e.g. codex 16 or codex 20 notch sizes).
- ▶ Heavily structured tile backings require, where necessary, a light over-trowelling to ensure a full bedding of the tile. Moreover, a flat substrate and a tile of consistent thickness are also required. Here, we recommend to use the codex 16 or codex 20 notch sizes.
- ▶ Clean tools and contaminated ceramics with water whilst mortar is still fresh.
- ▶ Drying and strength development depend on the climatic conditions. When using in exterior locations, weather cycles must be taken into account to guarantee adequate setting and drying of the installation; otherwise, take appropriate preventative measures.
- ▶ Leave until the installation mortar is adequately set and dry before grouting. Avoid premature foot traffic.
- ▶ Working in exterior locations: a professional damp-proofing with codex NC 220 should be incorporated. On surfaces heavily exposed to the weather, such as balconies and terraces, our primary recommendation is to use codex Power Fluxx Turbo with codex Power Mix.
- ▶ In addition to all applicable standards, regulations and notices, reference to the following is especially recommended:
 - DIN 18 352 "Working with large and small format tiling"
 - DIN 18 157 "Ceramic tile installation using the thin-bed method"
 - ZDB publications:
 - "Bonded damp-proofing"
 - "Coverings on cement screeds – heated"
 - "Coverings on cement screeds – unheated"
 - "Coverings on calcium sulphate screeds"
 - "Exterior coverings"
 - "Interface co-ordination"
 - BEB publications:
 - "Assessment and preparation of substrates"

Protection of the Workplace and the Environment:

Irritant. Contains cement low in chromate acc. Directive 2003/53/EC. Cement produces strong alkaline on reaction with water. Avoid contact with eyes and skin. In the event of contact, rinse thoroughly and immediately with water. In the event of skin or eye irritation, consult a doctor. When mixing wear a protective dust-mask. Use protective gloves. Presents no physiological or ecological risk when fully cured.

Disposal:

Dispose of empty packaging according to local regulations. Collect waste material, mix with water and allow to harden, then dispose as Construction Waste.