**PRODUCT DATA SHEET**

Middle-bed mortar white, rapid

# codex Stone Middle-Bed

White, rapid setting middle-bed mortar for natural stone tiling on walls and floors

## Description:

Low slump, hydraulic rapid setting, highly plasticised, white, middle-bed mortar in accordance with DIN EN 12 004 C1 FT for the installation of natural stone tiles in large format and various thicknesses respectively for coverings with higher mortar bed thicknesses. Wide range of uses from normal, standard installation to heavy duty tiling. For interior and exterior use on walls and floors in domestic, commercial and industrial locations.

Suitable for/on:

- light-coloured marble
- limestone
- Jura marble, Solnhofer tiles
- granite, quartzite
- plasterboard and plaster-fibreboard
- cement-, lime-cement- and gypsum-renders
- walling from brick, concrete block, breeze-block, sand-lime brick
- tiling boards
- in-situ concrete, pre-cast concrete (min. 6 months old)
- calcium sulphate- and cement-screeds
- dry construction materials that can be bonded
- adequately gritted mastic asphalt
- warm water underfloor heating systems
- floor heating with surface electric cabling

## Product Properties/Benefits:

Highly plasticised, dry powder mortar with special white cements, mineral aggregates and additives. When mixed with water, produces a smooth, low slump, hydraulic setting natural stone adhesive mortar with the best application properties. Its rapid water binding capacity considerably increases the reliability when installing natural stone that has a high water absorption potential.


CE
UZIN UTZ AG
Dieselstraße 3
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06
EN 12004
Cement-based mortar for interior and exterior floor and wall tiling
C1 FT

Meets the requirements according to DIN EN 12004 • C1 FT

GEV-EMICODE EC 1 R very low emission

- No discoloration, even with light-coloured natural stone
- For heavy demand uses
- For adhesive bed thickness up to 20 mm
- Rapid setting
- Easy to apply
- High early strength
- Waterproof and frost-resistant
- Low chromate content
- EMICODE EC 1 R / Very low emission

## Technical Data:

| | |
|---|---|
| Packaging: | paper sack |
| Packsize: | 25 kg |
| Shelf life: | minimum 6 months |
| Required water quantity: | 4.25 – 5.0 litres per 25 kg sack |
| Colour: | white |
| Working temperature: | 5 °C to 25 °C / 54 °F to 77 °F |
| Working time: | approx. 45 minutes* |
| Laying time: | approx. 20 minutes* |
| Set to foot traffic: | after approx. 3 hours* |
| Ready for grouting: | after approx. 24 hours* |
| Load bearing: | after 24 hours* |

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

**codex** | A Brand of UFLOOR Systems

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## Substrate Preparation:

The substrate must be sound, dry, level, free from cracks, clean, sustainable and free from materials that would impair adhesion.

Test the substrate in accordance with applicable standards and notices and report any deficiencies. Mechanically prepare smooth concrete surfaces and weakly bonded or soft layers and clean until dust-free. Calcium sulphate screeds must be abraded and vacuumed as a chargeable service, either as a finishing treatment by the screed installer, or as a special project by the installer of the floor covering. According to type and condition, prepare the substrate with suitable primers and smoothing compounds from the codex product range.

Prime gypsum-based substrates. Always allow primers to dry thoroughly.

Refer to the Product Data Sheets for other codex products used.

## Application:

1. Put approx. 4.25 – 5.0 litres of cold, clean water into a clean container. Sprinkle in the sack contents (25 kg) whilst stirring vigorously and blend to a lump-free mix with good plasticity. For small quantities, use approx. 170 – 200 ml water per 1 kg powder. Leave to stand for approx. 3 minutes, then mix thoroughly once again.
2. Using a smoothing trowel, scratch-apply a thin, fully sealed contact coat onto the surface.
3. Onto the fresh contact coat, spread a further coat of mortar of adequate thickness and, using a notched trowel, evenly comb through. Only apply as much mortar as can be covered within the working time.
4. Lay the natural stone into the mortar bed using a light twisting movement and press well down. For wall tiling using thick materials and mortar coats, the use of tile-wedges may be necessary.
5. Remove any contamination on tools or materials with water whilst still fresh.

## Consumption:

| Notch Size: | Consumption: | Coverage per 25 kg sack: |
|---|---|---|
| 8 mm (C4) | 3.0 kg/m² | 8.3 m² |
| 10 mm (C5) | 3.4 kg/m² | 7.4 m² |
| codex 16 Notch | 4.4 kg/m² | 5.7 m² |
| codex 20 Notch | 6.0 kg/m² | 4.2 m² |

## Important Notes:

- Shelf life minimum 6 months in original packaging when stored in dry conditions. Carefully and tightly re-seal opened packaging and use the contents as quickly as possible.
- Optimum conditions are 10 – 25 °C / 50 – 77 °F. Low temperatures delay setting and lengthen the working time, whilst high temperatures accelerate setting and shorten the working time. Therefore, in winter, heat the workplace and, in summer, use cold water.
- When installing natural stone that tends to have too high a water absorption (e.g. serpentinite), water-free adhesive systems like codex Fliesopur or codex Epoxiflex Plus should be used or technical advice should be obtained.
- Protect freshly prepared surfaces from draughts, direct sunlight and sources of heat.
- In exterior and wet areas, lay the natural stone using the floating-buttering method. Here, apply mortar to both the substrate and the underside of the natural stone and, as far as possible, lay the stone into a solid bed with no voids or spaces.
- For exterior installations, only lay onto proper damp-proofing using codex NC 220 or codex NC 210.
- For swimming pools and areas with high exposure to chemicals or acids, use codex products in accordance with the current codex Product Guide.
- On wood or chipboard, use the UZIN Multimoll Top-System.
- The following standards and notices are applicable and 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. Meets EMICODE EC 1 requirements (less than 200 micro-grams per cubic metre of Volatile Organic Compound emission) for maximum user safety and promoting healthier Indoor Air.

## 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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