Product Datasheet

S2 flex thin-bed mortar, 2-component

CODEX POWER RX 11 OUTDOOR

Highly flexible thin-bed mortar for reliable installation, especially outdoors

APPLICATIONS

Two-component, highly deformable, cement/dispersion-based thin-bed mortar for installing ceramic tiles and slabs, porcelain stoneware, glass and porcelain tiles, mega and giga format tiles, and for natural stone that is not prone to discolouration. Meets the requirements of EN 12004 C2 FE S2. Suitable on substrates such as cement/calcium sulphate screeds, mastic asphalt, lime cement plaster, cement plaster, gypsum plaster, concrete, masonry, gypsum boards, dry screed and underfloor heating. For interior and exterior floor covering.

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

SUITABLE FOR

- Stoneware, fine stoneware, earthenware
- Mega and giga formats (indoors)
- Glass and porcelain tiles with rough backing
- For fine and coarse ceramic tiles and slabs
- Tiles in outdoor areas up to 120 cm edge length (max. 1 m²)
- Natural stone and concrete slabs resistant to deformation and discolouration
- Damp and wet areas
- Underwater areas
- Residential, commercial and industrial buildings

SUITABLE ON

- Cement and calcium sulphate screeds
- Prefabricated concrete elements and concrete (min. 3 months old)
- Fresh cementitious screeds (unheated)*
- Heated floor constructions
- Dry screed
- Sufficiently gritted mastic asphalt

*see important notes.

PRODUCT BENEFITS/FEATURES

- Low water absorption
- Highly deformable
- High pull-off strengths
- Extended working time
- High application reliability
- Up to 10 mm mortar bed thickness

TECHNICAL SPECIFICATIONS

Pack type	paper bag and plastic canister
Pack size	20 kg + 8 kg
Shelf life	6 months powder 12 months dispersion
Color	grey / white
Minimum working temperature	+ 5 °C to + 25 °C
Ideal working temperatures	+ 10 °C to + 25 °C
Mixing ratio	A : B = 2.5: 1
Working Time/ Pot Life	approx. 60 minutes
Working time	approx. 30 minutes
Set to foot traffic	after approx. 6 hours
Ready for jointing	after approx. 6 hours
Final strength	after approx. 28 days*
Consumption	3.7 kg to 5.3 kg/m²

*At 23 °C and 50% rel. humidity.

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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. Shake liquid component B and pour into a clean mixing vessel. Add powder component A and mix vigorously to form a lump-free mortar while stirring vigorously.
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. Always use the buttering/floating method when installing outdoor coverings and large formats.
3. Before the skin starts to form, push the tiles into the adhesive bed with a slight twisting motion and press down.
4. Do not stir or mix material that has already set with water or powder. Clean tools and soiled ceramics with water while fresh.
5. Joint the floor covering only after sufficient setting and drying of the installation mortar. Avoid foot traffic too early.

COVERAGE

Notch size	Approx. consumption
8 mm, C4	3.7 kg/m²
10 mm, C5	4.1 kg/m²
12 mm	5.3 kg/m²

IMPORTANT NOTES

- Store in a cool and dry place. Carefully and tightly reseal opened packaging and use the contents as quickly as possible.
- Optimum processing at +15 °C to + 25 °C and relative humidity up to 75%. Cold, high humidity and non-absorbent substrates will delay whilst heat, dryness and absorbent substrates will accelerate the installation, setting and drying times.
- Fresh, unheated cement screeds (floating or on a separating membrane) must be laid as quickly as possible after they are ready for foot traffic and have appropriate load-bearing capacity, up to a screed age of 5 days. The usual drying deformations must not have begun yet. The screed installation must be carried out according to DIN 18560. Tile formats up to 60 cm edge length.
- Drying and strength development depend on the weather conditions. Weather cycles ensuring sufficient setting and drying of the coverings must be taken into account for exterior use; appropriate protective measures must otherwise be taken.
- Protect newly installed areas from drafts, direct sunlight and heat and from wet.
- 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 advise 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 obtain application advice.
- Floor temperature controls supplied by radiator connection line returns must be equipped with a temperature limiter (max. 38 °C).
- Always apply proper codex composite seal for external applications. Vitreous tiles are preferred as covering material. Obtain application advice for porcelain stoneware.
- The following also apply, in addition to other standards, or are recommended for special consideration:
  - DIN 18 352 "Wall and floor tiling"
  - DIN 18 157 "Execution of tilings and coverings by thin mortar bed technique"
  - ZDB (Central Association of the German Construction Industry) bulletins:
    - "Coverings on cementitious screed – heated"
    - "Coverings on cementitious screed – unheated"
    - "Coverings on calcium sulphate heated screed"
    - “Exterior coverings”
    - “Underfloor heating interface coordination”
  - BEB bulletin:
    - "Assessment and preparation of substrates"

SEALS OF QUALITY & ECOLABELS

- Low chromate content according to EU-VO 1907/2006 (REACH) (powder component)
  Solvent-free (dispersion component)
- EMICODE EC 1 PLUS / Very low emission

CONSTITUENTS

Special binders, polymer dispersion, mineral aggregates, preservation agents and additives.

PROTECTION OF THE WORKPLACE AND ENVIRONMENT

Dispersion component: Solvent-free. Use of barrier cream and ventilation of the work area are recommended.

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 | 04/2022

Powder component: 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 dispersal into drains, sewers or ground. Dispersion component: Empty, scraped and drip-free containers are recyclable. Containers with liquid residue, as well as the liquid product, are classed as Special Waste. Dried product residues are classed as Construction Waste. Powder component: Empty paper packaging is recyclable. Collect waste product, mix both components, allow to harden, then dispose as Construction Waste.

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