

Rapid setting white flex mortar

CODEX STONE SX 80 CRISTAL

White, rapid setting flex thin-bed mortar with crystalline water retention for natural stone and tile flooring

APPLICATIONS

White, rapid setting, flexible thin-bed mortar for the installation of calibrated and non-calibrated natural stone coverings as well as ceramic tiles and slabs. Discolouration is largely prevented by the crystalline water retention. codex Stone SX 80 cristal can be used in residential, commercial and industrial areas on wall and floor areas, both for interior and exterior applications.

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

SUITABLE FOR

- ▶ Light-coloured marble types such as carrara marble
- ▶ Lime stone, jura marble, solnhofen plates
- ▶ Granite, quartzite
- ▶ Natural stone tiles, natural stone mosaic
- ▶ Natural stone briquettes "sheet material"
- ▶ Earthenware, stoneware, clinker
- ▶ Residential, commercial and industrial areas

SUITABLE ON

- ▶ Cement and calcium sulphate screeds
- ▶ Sufficiently gritted mastic asphalt
- ▶ Cement, lime cement and gypsum plaster
- ▶ Gypsum plasterboards and gypsum fibreboards
- ▶ Tile carrier elements
- ▶ Compound-suitable insulation and light building boards
- ▶ Walls from brick, concrete blocks, gas concrete, lime sand brick
- ▶ Compound-capable dry construction elements
- ▶ Site-mixed concrete, prefab concrete elements (at least 6 months old)
- ▶ Hot water underfloor heating
- ▶ UZIN Multimoll plates



PRODUCT BENEFITS/FEATURES

- ▶ Up to 10 mm mortar bed thickness
- ▶ Crystalline water retention
- ▶ Free from discolouration even with light-coloured natural stone
- ▶ High application reliability
- ▶ Smooth and easy to process

TECHNICAL SPECIFICATIONS

Pack type	foil bag, paper bag
Pack size	5 kg, 25 kg
Shelf life	12 months in foil bag 6 months in paper bag
Color	white
Minimum working temperature	+ 5 to + 25 °C
Ideal working temperatures	+ 10 to + 25 °C
Water quantity required	0.2 - 0.4 litres/ 1 kg 5 - 6 litres/ 25 kg bag
Working Time/ Pot Life	approx. 1 hour*
Working time	approx. 20 minutes*
Set to foot traffic	after approx. 3 hours*
Ready for jointing	after approx. 12 hours*
Resilient	after approx. 48 hours*
Final strength	after approx. 28 days*
Consumption	1.3 - 3.2 kg/m ²

*At 23 °C and 50 % humidity.



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.

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).

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

APPLICATION

1. Provide cold water, cast in powder while stirring vigorously and mix to a homogeneous mortar. Mix well again briefly after a short maturing time. Note pot life.
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. A largely full-surface bed is achieved by choosing the suitable tooth profile and application technique (e.g. buttering / floating).
3. Before the skin starts to form, push the natural stone 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 flooring with water while still fresh.
5. Joint floor covering only after sufficient setting and drying of the installation mortar. Avoid foot traffic too early.

COVERAGE

Notch size	Approx. consumption
4 mm, C1	1.3 kg/m ²
6 mm, C2	1.9 kg/m ²
8 mm, C4	2.7 kg/m ²
10 mm, C5	3.2 kg/m ²

IMPORTANT NOTES

- ▶ Store in a cool and dry place. Carefully and tightly re-seal opened packaging and use the contents quickly.
- ▶ Optimum processing at + 15 to + 25 °C, relative humidity 75%. Cold and high humidity will delay whilst heat and low humidity will accelerate the working, setting and drying time.

- ▶ For high application thicknesses (over 5 mm) on moisture-sensitive substrates such as calcium sulphate screeds, a suitable barrier primer such as codex FG 500 H/S or codex FG 550 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.
- ▶ When installing natural stones tending toward strong "dishing" due to water absorption (e.g. Serpentine), waterless bonding systems such as codex Fliesopur must be used or application-related consulting needs to be solicited.
- ▶ Protect newly installed areas from drafts, direct sunlight and heat as well as wetness.
- ▶ Drying and strength development depend on the weather conditions. Weather cycles ensuring sufficient setting and drying of the coverings must be taken into account with exterior use; appropriate protective measures must otherwise be taken.
- ▶ 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 solicit application consulting.
- ▶ Floor temperature control through radiator connection lines returns must be equipped with a temperature limiter (< 38 °C).
- ▶ Always apply proper codex composite seal for external applications. Glazed vitrified tiles are a preferred covering material. Obtain application consulting for dust-pressed vitrified tiles.
- ▶ The following apply as well, amongst others, or are recommended for special consideration:
 - DIN 18 352 „Tile and slab work“
 - DIN 18 157 „Ceramic work in thin bed processes“
 - ZDB bulletins:
 - „Coverings on cementitious screed – heated“
 - „Coverings on cementitious screed – unheated“
 - „Coverings on calcium sulphate screed“
 - „Exterior coverings“
 - „Interface coordination underfloor heating“
 - BEB bulletin:
 - „Assessment and preparation of 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.