

Lightweight Flex-Mortar

codex Power Maxx

Flexible thin-bed mortar with light-weight aggregates for ceramic wall and floor tiling

Description:

Low-slump, flexible, hydraulic-setting, lightweight tiling adhesive in accordance with DIN EN 12 004 C2 FTE for high demands and S1 in accordance with DIN EN 12 002. For fixing and laying ceramic wall and floor tiling in interior and exterior locations. Widest range of applications from standard installation to special uses such as on underfloor heating and facades. codex Power Maxx is also suitable for smoothing uneven surfaces in renders, brickwork and screed subfloors.

Amongst others suitable for/on:

- ▶ fine and coarse, large and small format tiles
- ▶ stoneware, clinker, fine stoneware, cotto
- ▶ glass- and porcelain-tiles with rough backing structure
- ▶ large surface ceramics
- ▶ levelling coats up to 15 mm thickness
- ▶ cement- and calcium sulphate-screeds
- ▶ mastic asphalt
- ▶ lime-cement-, cement- and gypsum-renders
- ▶ in-situ concrete, pre-cast concrete more than 3 months old
- ▶ blockwork made from breeze-block and blown-concrete, bricks, limestone- and concrete-blocks
- ▶ plasterboard and other bonded dry construction boards, dry screeds
- ▶ tiling boards
- ▶ UZIN Multimoll boards
- ▶ warm water underfloor heating
- ▶ surface heating flooring with electrical cable systems

Product Properties / Benefits:

Highly plasticised, very economical dry powder mortar with a specially graded combination of fillers. When mixed with water, produces a smooth, very low-slump, thin-bed mortar with the best application properties.



Composition: Special cements, lightweight aggregates, re-dispersible plastic powder, additives.

- ▶ Low consumption
- ▶ Very low-slump consistency
- ▶ Excellent adhesion
- ▶ Very smooth and very economical
- ▶ For adhesive bed thickness up to 15 mm
- ▶ Water-proof and frost-resistant
- ▶ High flexibility
- ▶ For heavy duty uses
- ▶ Extended adhesive open time
- ▶ Low chromate content

Technical Data:

Packaging:	paper sack 14 kg
Shelf life:	min. 12 months
Mortar colour:	grey
Mixing water:	approx. 9.25 litres per 14 kg
Working temperature:	5 °C to 30 °C / 41 °F to 86 °F
Application time:	approx. 2 hours*
Working time:	approx. 30 minutes*
Set to traffic /grouting:	after 12 hours*
Load-bearing:	after 1 days*
Final strength:	after 28 days*

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

Substrate Preparation:

The substrate must be sound, dry, level, free from cracks, clean, load-bearing 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, weakly bonded or soft areas and remove all dust. According to surface type and condition, prepare with a suitable primer and smoothing compound from the codex Product Guide. Prime gypsum-based substrates. Flow-screeds must be abraded, vacuumed and primed. Always allow primers to dry thoroughly.

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

Application:

1. Prepare approx. 9.25 litres of cold, clean water, sprinkle in the contents of the sack (14 kg) whilst stirring vigorously and mix to a smooth, lump-free mortar. For part quantities, use approx. 660 ml water per 1 kg powder.
2. Leave to stand for approx. 3 minutes, then mix thoroughly once again.
3. Scratch-apply a thin contact coat onto the surface using a smoothing trowel.
4. Onto the contact coat whilst still fresh, apply a sufficient quantity of mortar and immediately comb through with a notched trowel. Only cover as much surface as can be tiled within the adhesive working time (finger test).
5. Lay the tiles into the adhesive bed using a light twisting motion and press well down.

Using a suitable trowel notch and application method (e.g. buttering / floating) the best possible full adhesive bed will be achieved.

Consumption:

Trowel Notch	Approx. consumption	Coverage per 14 kg sack
C2, 6 mm square notch	1.1 kg/m ²	13.0 m ²
C4, 8 mm square notch	1.5 kg/m ²	9.3 m ²
C5, 10 mm square notch	1.9 kg/m ²	7.5 m ²

Variation in material consumption are possible according to surface condition and handling, as well as condition of the notched trowel used.

Important Notes:

- ▶ Shelf life minimum 12 months in dry storage conditions. Tightly and carefully re-seal opened packaging and use the contents as quickly as possible.
- ▶ Optimum working conditions are 15 – 25 °C/59 – 77 °F, rel. humidity below 75 %. Cold conditions and high humidity lengthen, whilst warm and dry conditions shorten the working-, setting- and drying-times.
- ▶ For areas with high exposure to chemicals and acids, under-water locations and areas with persistent exposure to water (e.g. communal showers, swimming pools) as well as on wood and chipboard, metal and plastics, use codex products in accordance with the current Product Guide, or obtain technical advice.
- ▶ Floor temperature control provided by means of an element feed return must be equipped with a temperature limiter (< 38 °C/100 °F).
- ▶ Protect freshly laid surfaces from draughts, direct sunlight, sources of heat and water.
- ▶ Clean tools and contaminated surfaces with water whilst the mortar is still fresh.
- ▶ Drying and strength development depend on climatic conditions. When using in exterior locations, use in those weather conditions that will ensure adequate setting and drying of the materials, otherwise implement appropriate protective measures.
- ▶ Grout the tiling only after adequate setting and drying of the mortar. Avoid premature traffic.
- ▶ Application in exterior locations: a professionally installed damp-proofing with codex NC 220 or codex NC 210 must be incorporated. On surfaces exposed to weather, such as balconies and terraces, our first recommendation is codex Power Fluxx Turbo with codex Power Mix.
- ▶ In addition to all relevant 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.



SB solutions BVBA - Drie Sleutelsstraat 74, B-9300 Aalst - tel. 053 41 70 13 - www.sbsolutions.eu - info@sbsolutions.eu

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 Product Data Sheet invalidates all previous Product Information.