

Seramixx Flex



Cement-based, C2TE S1 class, flexible, high-performance tile adhesive mortar

Description

Cement-based, flexible, high-performance tile adhesive mortar with extended open time and reduced slip, classified as C2TES1.

Advantages

- Has high adhesion strength,
- Suitable for underfloor heating systems,
- Flexible (Class S1),
- Easy to apply,
- Resistant to heavy foot traffic,
- Water- and frost-resistant (after full curing),
- Provides strong adhesion for large-format granite, ceramic tiles, and glazed porcelain.

Application Areas

- For applications on interior and exterior surfaces of buildings,
- On horizontal and vertical surfaces,
- In high-traffic areas such as residential buildings, shopping malls, and commercial buildings,
- In schools, hospitals, terraces, water tanks, and cold storage areas,
- In wet areas,
- Suitable for underfloor heating systems.

Application surfaces

Application can be made on sound, low water-absorbent, dust-free surfaces free from oil and dirt, such as cement-based plasters, gypsum-based plasters (must be primed), cement-based screeds, concrete floors, etc.

Not suitable for metal surfaces (Hammerfuga EP should be used), not suitable for wooden floors, and should not be applied on fair-faced concrete without primer..

Surface preparation

The application surface must be cleaned of dust, paint, dirt, detergent, and similar substances that may prevent adhesion, and must be clean, dry, smooth, and sound. Surfaces requiring repair should be repaired at least one day in advance using the Hammerfast RM-150 repair mortar series. Porous surfaces should be pre-moistened.

Application

25 kg of Hammerfast Seramixx Flex should be mixed with 6.0–6.5 L of clean water using a low-speed mixer or a trowel until a lump-free mortar is obtained. After resting for 1–2 minutes, mix briefly again and begin application.

The mortar should be applied to the surface and its thickness adjusted with a notched steel trowel. The notch size should be selected according to the tile dimensions and the smoothness of the substrate. For large-format tiles, the adhesive should be applied using the double-buttering method. The tiles must be fixed onto the combed mortar within 30 minutes at the latest. For proper adhesion, trapped air should be expelled using a rubber mallet.

Consumption

Tile Size	Notch Size	Consumption
10x10 to 20x20 cm	8x8x8 mm	Single-sided application 5 kg/m ²
10x10 to 20x20 cm	8x8x8 mm	Double-sided application 6 kg/m ²
20x20 to 30x30 cm	10x10x10 mm	Double-sided application 6-7 kg/m ²
30x20 to 60x60 cm	10x10x10 mm	Double-sided application 7-8 kg/m ²

Precautions

- If the water absorption of the backing layer of the tiles to be bonded is high, this type of tile should not be used.
- Ambient temperature should be between 5 °C and +30 °C.
- Do not add any additives not specified in the application instructions.
- After mixing, the product must be used within its pot life.
- During application, the surface must be protected from wind, rain, direct sunlight, and frost. The applied surface should be protected from rain for 24 hours.
- For bonding light-colored tiles, similar coverings, and glass blocks, Hammerfast Seramixx Flex White adhesive mortar should be preferred.
- Do not apply on weak or loose substrates; very smooth and glossy surfaces should be roughened beforehand.
- In underfloor heating systems, the heating must be turned off before application.
- Tools used after application should be cleaned with water before the material hardens.

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Technical Properties

Color and appearance	Grey & white fine powder
Classification	C2TE S1
Mixing ratio	With 6.0–6.5 L of water
Temperature resistance	-30°C / +80°C
Pot life (at 20 °C)	2 hours
Open time	30 min.
Grouting time	After 24 hours
Time to traffic	After 24 hours
Application temperature	+5 °C / +30 °C
Tensile adhesion strength after extended open time	≥ 0,5 N/mm ² (EN 1346)
Initial tensile adhesion strength	≥ 1 N/mm ² (EN 1348)
Tensile adhesion strength after water immersion	≥ 1 N/mm ² (EN 1348)
Tensile adhesion strength after freeze-thaw cycles (30 cycles)	≥ 1 N/mm ² (EN 1348)
Tensile adhesion strength after heat aging	≥ 1 N/mm ² (EN 1348)
Slip	≤ 0,5 mm (1308)
Transverse deformation	S1 (≥2,5 mm, <5mm)
Reaction to fire class	Class A1 (EN 13501-1+A1)

* Values are determined at 23 ± 2°C temperature and 50 ± 5% relative humidity.

Safety Precautions

- Keep out of reach of children.
- Do not swallow.
- Keep away from food.
- Do not inhale or allow contact with skin.
- May cause allergic reactions.
- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Use gloves, goggles, and protective clothing during application.
- Wash hands with plenty of water after application.
- For detailed safety information, read the Material Safety Data Sheet (MSDS)

Packaging

Supplied in 25 kg kraft bags.
(1 Pallet = 60 bags = 1500 kg / Pallet size 80×120 cm, h = 100 cm)

Tool Cleaning

All tools used must be cleaned with water immediately after application.

Storage and Shelf Life

When stored in its original, unopened packaging in dry, moisture-free environments, protected from direct sunlight, and at temperatures between +10°C and +35°C, the shelf life is 12 months from the date of production. If not used, the packaging must be tightly sealed. A maximum of 2 pallets may be stacked on top of each other.

Quality certificates

- TSE
- CE
- ISO 9001
- ISO 14001

