

EM 251 (WHITE)

Flexible Non Slump Wall & Floor Tile Adhesive

Product description

EM 251 is a highly polymer-modified, hydraulically setting thin- and medium-bed mortar for indoor and outdoor use for bonding ceramic wall and floor tiles made of earthenware, stoneware, mosaic and porcelain stoneware and natural stone slabs that are resistant to discoloration.

Field of application

EM 251 is suitable for fixing and laying tiles made of earthenware, stoneware and porcelain stoneware, mosaic, and natural stone slabs as well as for all bonding of ceramic tiles, split clinker, thermal and acoustic insulation boards to plaster, concrete, screed, aerated concrete, gypsum fiber boards and plasterboard. Especially for bonding calcium sulphate and heated screeds, mastic asphalt (interior), terraces, balconies, etc. Can also be used tile on tile. Grouting can be carried out after 12 hours.

Properties

- according to DIN EN 12004 / C2 TE S1
- Can be walked on and grouted: after approx. 12 hours.
- Especially for large-format tiles
- Suitable for heated screeds
- Great Workability
- Highly Flexible
- Long Open Time
- Tile on tile bonding
- High stability

Substrate

The flexible properties of EM 251 enable bonding even on critical substrates. Also suitable for dry substrates such as concrete, aerated concrete, cement and lime-cement plasters, gypsum plasters, gypsum plasterboards and gypsum fiberboards, cement and calcium sulphate screeds, cementitious levelling and filling compounds, mastic asphalt (indoors only), old tiling, alternative waterproofing, insulation boards.

Substrate Preparation

The substrate must be dry, sufficiently solid, load bearing, clean, dimensionally stable, and free of cracks. Low-strength surface areas, separating layers (e.g., oil, grease, paint residues, etc.) and cement slurry must be removed mechanically if necessary.

We recommend the following primers:

- EM 230 for normally absorbent substrates
- EM 4716 for sanded calcium sulphate screeds (1:2), for tiles and slabs with a side length ≤ 60 cm or slab size ≤ 0.18 m²
- EM 231 for non-absorbent and smooth substrates

Processing / Installation

EM 251 is mixed in a clean container with clear water while stirring vigorously to form a lump-free, paste-like mortar suitable for processing. After a maturing time of at least 3 minutes, the mortar mixture must be stirred well again. Apply only enough mortar to the substrate so that the covering materials can be inserted within the open time. The joints must be scraped out before the mortar hardens. Remove mortar residue in good time with a sponge or similar (and water). The tool is cleaned with water after use; once hardened, cleaning is only possible mechanically.

Technical data

Walkable	after approx. 12 hours
Loadable	after 7 days
Adhesive open time	approx. 30 minutes
Maturing time before remixing	3 minutes
Application temperature	+ 5°C to + 25°C
Working time	approx. 3 hours
Can be Grouted	after approx. 12 hours
Water requirement	approx. 0.290 l/kg

Coverage

10 mm notched trowel - approx. 4.2 kg/m²

Special Notes

The technical data refer to + 23°C and 50 % relative humidity. Lower temperatures lengthen, higher temperatures shorten the specified values. The substrate must be checked for residual moisture before laying:

- Cement screeds: max. 2.0 CM-%
- Anhydrite and calcium sulphate screeds: max. 0.5 CM-%
- for underfloor heating: 0.5 CM-%
- gypsum-based substrates: max. 1.0 CM-%
- Cement and lime-cement plasters: air-dry

In cases of doubt, test areas must be created! Request advice regarding processing, substrate, or special design features. Do not add any foreign substances.

Shelf Life

EM 250 can be stored for at least 12 months in a dry place and in the original packaged bag.

Packaging

20kg paper bags – 56 x 20kg bags per pallet

Legal information

The information in this publication is based on our current technical knowledge and experience. Due to the wide range of possible influences when processing and using our products, it does not exempt the user from carrying out his own tests and trials and only represents general guidelines. A legally binding guarantee of certain properties or suitability for a specific application cannot be derived from this. Any industrial property rights and existing laws and regulations must always be observed by the user on his own responsibility. With the publication of this publication/view, all previous publications/views lose their validity.