

Description

MK 1000 is a tile adhesive in powder form composed of cement, graded aggregates and special additives. MK 1000 after mixed with water or enhancing latex solution hardens without noticeable shrinkage and becomes extremely resistant with excellent adhesion on almost all absorbent and stable substrates we find in constructions. When MK 1000 is mixed with enhancing latex solution such as NOVALASTIC or PL 400 can be used also in demanding applications on both floor and walls.

Typical Applications

MK 1000 if mixed with water and BAUMENT 200L, NOVALASTIC or PL 400 is suitable for bonding:

- Medium sized ceramic and gres porcelain tiles on both walls and floors.
- Ceramic tiles and stones not sensitive to humidity. MK 1000 when mixed only with water is suitable for bonding:
- Medium size ceramic tiles (quarry tiles, single and double fired, cotto) and natural stones (not humidity sensitive) on both floors and walls inside bathrooms and wc.
- Medium size ceramic tiles in internal areas on all usual building substrates such as cement screeds or mortar wall renders as long as they are properly cured and not subjected to vibrations and deformations.

Application Procedure

Substrate preparation

All the usual cement based substrates are suitable for MK 1000 as long as they are flat, mechanically resistant, without cracks, free of loose parts, paint, oil, wax, and in general materials which might compromise the adhesion of MK 1000 on the substrate. The application substrate must be free of cracks and not subjected to deformations. The minimum surface strength of the substrate must be at least 1,00N/mm² according to EN 14879. In the presence of humidity we must protect the substrate with suitable cement based waterproofing product (use SC 100) in order to waterproof the substrate before the application. In case of floating screeds these must be left to mature for at least 5 - 7 days per each cm of their thickness. If the application area is very warm or dry due to weather conditions its advisable to wet the substrate before the application.

On very absorbent but solid substrates the application of PLANOPRIMER or NOVAPRIMER is recommended prior to the application of the adhesive. In the presence of cracks in the substrate these must be bonded with the two component epoxy adhesive EPO FLUID. In case of loose parts on renders and cement screeds these must be removed and the holes to be repaired with RS 110 or FC 10. Existing paints on walls and floors must be removed and in every case an adhesion test must be held prior to the installation. For further information refer to the relevant Technical Data Sheets of the products and contact our Technical Support.

Preparing the mix

In a clean bucket containing 4.8 - 5.2lt of clean water, pour the 20kg bag containing the MK 1000 powder and stir by means of a mechanical mixer in low rpm until a smooth and lump free paste is obtained. Let the mix rest for 5 minutes and stir again. The mix is ready for use. For applications where high elasticity is required (like in example large sized tiles) we must replace part of the mixing water with enhancing latex such as NOVALASTIC or PL 400.

- ▶ Cement Based
- ▶ One Component
- ▶ Colour: White
- ▶ Suitable for both floors and walls
- ▶ Excellent workability
- ▶ Can be used in demanding applications when mixed with NOVALASTIC or PL 400

Applying the mix

Apply the mix with a notched trowel. The choice of the correct trowel must be according to the general rule that the back of the tile must be covered at least 80% with adhesive for applications in internal dry areas and for not demanding applications. For demanding applications the whole back of the tile must be covered. In such case apply adhesive on the substrate and on the back of the tile (back buttering system). In order to achieve a better adhesion it is advised to apply first a thin layer of MK 1000 on the substrate by using the smooth side of the trowel and immediately after apply MK 1000 with the notched side of the trowel.

Installing the tiles

There is no need to wet the tiles prior to installation. Only in cases where there is a lot of dust on the back of the tiles you can dip the tiles in clean water. To ensure a good bonding during installation press firmly the tiles on the fresh adhesive bed. The open time of MK 1000 in normal weather conditions is 15 - 20 minutes. Weather conditions like direct sun, drying wind, high temperature or a very absorbent substrate, can drastically reduce the open time of the adhesive. For this reason we must always check that a "skin" does not form on the surface of the adhesive bed. In case this skin occurs remove it and re-apply the adhesive. It is not advisable to wet the adhesive with water once this "skin" is formed. If we do that instead of distracting the "skin" the water will form an anti adhesive film. Tile adjustments



should be carried out within a 30 minutes period, after that period it is difficult to make corrections. Tiling made with MK 1000 must be protected from strong sun and frost for about 5 - 7 days and from water for at least 24 hours.

Grouting

Grouting can take place after the adhesive hardens enough. Use UNIGROTTO for joints up to 10 mm, UNIGROTTO for joints 5 mm up to 20 mm and UNIGROTTO ULTRA G for joints from 10mm up to 50 mm. For applications that require special hygienic properties and increased strength it is recommended to use the epoxy grout UNIGROTTOEPOXY.

Consumption

Bonding ceramic tiles:

- Mosaics and small sized tiles: 2,00kg/m²
- Normal sizes: 2,50 - 3,00kg/m²
- Large sizes (up to 40cm): 4,00kg/m²

Storage

MK 1000 remains stable for at least 12 months in a cool and dry protected from direct sunlight area, in the original packing sealed.

Cleaning

Tools, containers and tiles can be cleaned with plenty of water while MK 1000 is still fresh. If hardening occurs cleaning can be done only by mechanical means.

Packaging

Paper bags of 20kg in pallets of 1000Kg.

Warning

The technical data and recommendations contained in this leaflet correspond to the best of our knowledge and experience. All the above mentioned information in any case should be considered as merely indicate and subject to confirmation after long term practical applications. For this reason anyone interested of using the product must be sure before hand that the product is suitable for the envisaged application. In every case the user alone is fully responsible for any consequences deriving from the use of the product. We retain the right of renewal of the data of the leaflet without warning. **ONLY FOR PROFESSIONAL USE**

Product Identification	
Consistency	powder
Color	white
Specific gravity	>1,36 gr/cm ³
Dry solids content	100%
Storage	12 months

Application data (+23°C and 50% R.H.)	
Mixing ratio	4.8 - 5.2lt of water for 20kg MK 1000
Consistency	paste
Specific gravity of the mix	> 1,45gr/cm ³
Application temperature range	from +5°C to +35°C
Pot life	4 hours
Open time	≈ 20 min
Adjustability time	≈ 30 min
Set to foot traffic	after 24 hours
Wall grouting	after 10 - 12 hours
Floor grouting	after 24 hours
Cure time (%95)	after 15 days

Final Performances EN 12004:2007 +A1:2012	
Initial tensile strength after 28 days EN 1348: 8.2	≥ 0,78 N/mm ²
Tensile strength after immersion in water EN 1348: 8.3	≥ 0,61 N/mm ²
Tensile strength after heat aging EN 1348: 8.4	NPD
Tensile strength after freeze / thaw EN 1348: 8.5	NPD
Sliding EN 1308	≤ 0,5 mm
Resistance to fire EN 13501-1	A1