

MK 1000

Normal cement-based tile adhesive C1T

- ▷ **Suitable for various substrates**
 - ▷ **Excellent workability**
 - ▷ **Suitable for walls and floors**
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Description

MK 1000 is a ceramic tile adhesive in the form of powder. It is consisted of cement, fine selected sand and special additives. It is a high performance, thixotropic thin set tile adhesive with slip resistance. It is suitable for floors and walls on almost every common substrate we meet in constructions.

Certifications

CE Marking with Declaration of Performance (DoP) C04721-CPR-1600022 as normal cementitious adhesive with reduced slip for ceramic tiles on floors and walls, C1T.

Uses

MK 1000 is suitable for fixing coverings such as:

- Ceramic tiles, single fired, double fired, medium sizes
- Ceramic and glass mosaic with SBR 50 enhancing latex addition
- Humidity stable marble and natural stone

For applications on horizontal or vertical surfaces such as:

- Wet areas like shower rooms and WC
- Medium traffic floors

For application on various substrates like:

- Properly cured concrete and cement screeds
- Non-absorbent substrates (after suitable primer application)
- Plaster and masonry mortars
- Cement boards and gypsum boards (after suitable primer application)

Technical Data

Product Identity

Form	Powder
Color	White
Chemical substance	Portland cement, aggregates, special additives
Granulometry	D _{max} : 0,6 mm
Bulk density	1,5 ± 0.1 kg/l
Storage	12 months on dry area in the original sealed packaging

Application data (+23°C & 50% R.H.)

Mixing ratio	4,8 – 5,2 lt of water for 20kg
Specific gravity of the mix	1,65 ± 0,05 kg/l
Application temperature	from +5°C up to +35°C
Pot life	4 hours
Open time	20 min
Small corrections	30 min
Walkability	after 24 hours
Grouting on wall	after 10 -12 hours
Grouting on floor	after 24 hours
Consumption by trowel	No 4: 1,8 – 2,0 kg/m ² No 6: 2,6 – 2,8 kg/m ² No 8: 3,6 – 4,0 Kg/m ² No10: 4,8 – 5,0 kg/m ²

Final performance according to EN 12004:2007+A1:2012

	Performance
Initial tensile bonding strength	≥ 0,5 N/mm ²
- after water immersion	≥ 0,5 N/mm ²
- after thermal ageing	NPD
- after thaw-freeze cycles	NPD
Vertical slip	≤ 0,5 mm

Application Procedure

Substrate Preparation

The substrate has to be compact, clean, free of grease, oil, laitance and any substances which may compromise the adhesion of MK 1000. Concrete based substrates should be prepared in example by grinding, in order to obtain a uniform flat mineral surface without protruding spots.

On absorbent substrates like concrete, cement screeds etc. especially on hot and/or windy days saturate well the substrate with water and remove excess with appropriate toll like sponge. For additional information refer to the Technical Data Sheets of the relevant products.

Preparation of the mix

Mix the content of the paper bag containing MK 1000(20 kg) with 4,8 – 5,2 liters of clean and fresh water by means of appropriate electrical stirrer at low speed (500 rpm) for at least 3 – 5 min, until a uniform mortar free of lumps is obtained. The mix has a pot life of 4 hours. During hot periods and in general, it is recommended to avoid direct sunlight exposure of the materials (in powder or liquid form) before use, otherwise the working time is reduced. In any case avoid mixing by hand.

Application

The tiles are placed on the still fresh adhesive bed, by applying firm pressure, to ensure full contact between the tiles and the adhesive. The open time of MK 1000 in normal temperature and humidity conditions is more than 20 minutes. Unfavorable weather conditions like contact with strong direct sunlight, drying and/or hot wind or a very absorbent substrate may reduce the open time significantly. For this reason, it is important to check if the adhesive has formed a superficial 'skin'. If such incident occurs, remove the adhesive from the substrate and reapply it, before applying the tiles. Small corrections must take place 30 minutes after tile application. Surfaces tiled with MK 1000 should not be exposed to rain, strong sun or frost for at least 24 hours.

Grouting

Grouting can take place 12 - 24 hours after the tile application. For large size tiles this waiting time might be prolonged. For grouting joints up to 10mm width it is recommended to use of NOVAGROUT F. For rectified tiles or when the requirement is very smooth grout surface, NOVACOLOR GLASS can be used. In areas where resistance to strong chemicals is required like in example kitchen benches it is recommended to use the epoxy grout NOVAGROUT EPOXY. For additional information refer to the Technical Data Sheets of the relevant products.

Recommendations

Avoid using MK 1000:

- In cases where the substrate and environment temperature is less than +5°C or higher than +35°C
- In a thickness higher than 10mm
- On substrates like metal, wood or surfaces like polyurethane, acrylic and similar paint or coatings (use NOVACOL 2K ELASTIC)
- On PVC, asphalt membranes and in general materials which polymerize in the long run
- For bonding humidity sensitive marble and natural stones
- On friable or not properly cured substrates
- Over existing expansion joints
- Over not absorbent substrates without appropriate primer

Also note the following:

- Never exceed the maximum recommended quantity of mixing water
- Protect the tiled surface from rain and frost for the first 24 hours
- Do not add cement, lime, gypsum or other binders or substances which may affect the mortar characteristics
- Application should be performed by professional skilled workers

Consumption

Ceramic tile bonding:

- Mosaics and small dimensions: 2kg/m²
- Medium size tiles: 2,5 -4 kg/m²

Cleaning

Tools, buckets, tiles etc. can be cleaned with fresh and clean water as long as MK 1000 is still fresh. After hardening occurs, cleaning can take place by mechanical means.

Storage

MK 1000 remains stable for 12 months from production date inside its original sealed packaging, stored in protected dry area in temperature between +5°C and +35°C.

Packaging

Multi-layer paper bags of 20kg

Safety Instructions

For information and instructions regarding disposal and safe handling, users should refer to the latest Safety Data Sheet of the product containing ecological, toxicological and other safety related data.

Legal notes

The technical data and recommendations contained or listed in this leaflet are the result of laboratory measurements, of our current knowledge and experience. All the above-mentioned information and specifications should in any case be considered as indicative, as they may differ from each other. The Company makes every effort to ensure the accuracy of the information provided herein. Product specifications, prices and availability are subject to change without notice and may differ from those shown.

In practice, variations in materials, substrates and on-site implementation conditions are such that no warranty can be given or implied, as to the merchantability or suitability of the materials for a particular purpose and for the exact conditions of each project. Anyone interested of using the product must be sure beforehand that the product is suitable for the intended use and in any case, the user is solely responsible for any consequences due to the use of the product. Among other things, the Company is not responsible for any normal wear or tear from environmental or other inappropriate conditions. We reserve the right to revise or change the data herein without prior notice.

Restrictions and disclaimers apply to the extent permitted by applicable law. The Company has a Technical Support Department, which is the only one responsible for providing technical advice and solutions to deal with problems. Requests to the Technical Support Department are addressed and answered, only in writing.

For the latest and a valid version of the Technical Data Sheet, the user of the material must refer to our website www.novamix.gr or directly to the QR Code of the product.



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