



MARMOFLEX-2K

2 components cementitious adhesive for porcelain tiles, glass mosaic, natural and engineered stones

- For natural stones laying
- For laying of ceramic floor and wall tiles and glass mosaic
- Flexible
- Throwable up to 15 mm thickness
- For interior and exterior
- Suitable for heated screeds
- Smooth application
- White colour
- Tested in accordance with EN 12004, C2 S2
- **CE**



TECHNICAL FEATURES:

MARMOFLEX-2K Comp B is a polymeric dispersion designed to be used in combination with MARMOFLEX-2K Comp.A (cement based powder component), in order to obtain a high performance cement based adhesive for wall and floors laying of porcelain tiles, glass mosaic, natural and engineered stones in interior and exterior areas. MARMOFLEX-2K Comp. B can be used for the same applications in combination with Portland cement and fine sand.

AREAS OF APPLICATION:

For laying porcelain tiles and non-absorbing ceramic tiles.

For interior or exterior laying of ceramic floor and wall tiles or natural stones of all kinds also onto smooth and non-absorbing foundations. Interior and exterior laying of ceramic floor and wall tiles, glass mosaic, natural and engineered stones.

CONTRACT ITEM SPECIFICATIONS:

Tile floors and walls must be laid with a cementitious bi-component mortar, flexible, hyper white, spread with trowel in thickness of 15 mm, conforming to norm EN 12004 class C2 S2 as MARMOFLEX-2K by Benfer.



TECHNICAL
ASSISTANCE



INSURANCE
GUARANTEE



TECHNICAL
MEETINGS



PROFESSIONAL
USE

SUITABLE SUBSTRATES:

- Concrete
- Cement-based screeds, standard or heated with water system
- Cement-based plaster
- Flexible waterproofing membranes made up of cement and polymers (ACQUASHIELD-2KF)

INSIDE:

- Fluid cement-based screeds (prior application of an appropriate primer if demanded), standard or heated with water system
- Old ceramic tiles (prior application of an appropriate primer)
- Elastomeric waterproofing membranes (ACQUASHIELD-GEL)

MAXIMUM SIZES:

- Internal floors with maximum length of longest tile side up to 360 cm.
- External floors with maximum length of longest tile side up to 120 cm.
- Internal walls coverings with maximum length of longest tile side up to 360 cm
- External walls coverings with maximum length of longest tile side up to 90 cm

See the choice table to verify size limits by tile/substrates characteristics

METHODE OF USE:

SUBSTRATES PREPARATION:

Foundations must be free from oils, greases or powders. Eventual painted surfaces must be in best condition, washed and degreased; otherwise, it is indispensable to eliminate accurately any paints from the plaster. Do not use on substrates made of gypsum and anhydrite or on very absorbent substrates without first treating them with BENFERPRIM.

PREPARATION OF THE MIXTURE:

Mix four parts by weight of MARMOFLEX-2K Comp A with one part by weight of MARMOFLEX-2K Comp B (pour the powder into the liquid) until you obtain a homogeneous, bright, plastic adhesive. Leave it rest for 2 minutes, and then re-mix rapidly. The adhesive is now ready to use and it must be used within 3 hours. It is possible to use MARMOFLEX-2K Comp B in combination with portland cement and fine sand. In this case it is necessary to prepare a dry mixture of 2 parts by weight of Portland cement (white or grey) and 2 part by weight of fine sand and then mix it with one part by weight of MARMOFLEX-2K Comp B as described here above.

TILING:

INTERIOR: Lay the tiles while exerting a good pressure on the tiles surface, so that contact between tile and adhesive will be at least 95-100%.

EXTERIOR: The contact between tile and adhesive must be 100% so as to avoid the eventual rain infiltrations that in case of frost could cause the detachment of the tiles. Therefore, it is suggested to spread also a thin layer of adhesive on the back of the tiles.

We suggest to do the same things even inside for:

- Floor tiles largest than 500 cm² with water absorption of the tiles \geq 0.5% (e.g. porcelain tiles)
- Floor tiles largest than 1100 cm² with all the other types of tiles
- Wall tiles largest than 120 cm² with water absorption of the tiles \geq 0.5% (e.g. porcelain tiles)
- Wall tiles largest than 500 cm² with all the other types of tiles
- Special applications such as industrial refrigerators, basins, swimming pools, etc.

It is essential to leave a joint of at least 3 mm between each tile, and to ensure that the tiling conforms with the expansion joints of the structure, to be elastically sealed, as well as the joints between walls, and the joints between wall and floor. In any case expansion joints and perimeter joints must be carried out every about 20 m².

FULL SERVICE:

At 23°C and with 50% relative humidity, the open time of the mix is approximately 30 minutes. In unfavourable conditions, these times may be significantly reduced. You are therefore advised to spread the adhesive a little at a time and to check frequently that it has not formed a surface film before laying the tile. To improve workability, especially in summer, it is beneficial to exclude draughts. In the first 48 hours after application, the adhesive does not withstand frost. Flooring installed using MARMOFLEX-2K can be walked over cautiously after about 24 hours for grouting, and are fully loadable after 7 days.

ADVICE:

- Do not use to lay products which present clear problems of enduring stains when in contact with water, even for short times; in this case we recommend the use of BENFERJOLLY.
- Do not use to lay synthetic tiles which are unstable in presence of humidity, such as tiles based on green marble, some kind of slate and brownstone; in this case we recommend the use of BENFERJOLLY.
- Do not use on plastic material, metals and wood.
- Do not use on surfaces subject to opposite moisture.

CLEANING: The cleaning of the covering must be done with a damp cloth or sponge when the adhesive has already started to set and it can be done by using greater quantity of water only after 48 hours from the tiling.

PACKAGING: MARMOFLEX-2K Comp A: 25 kg bags in 1.500 Kg pallet.

MARMOFLEX-2K Comp B: 25 kg tans.

STORAGE: In the original unopened packaging in a dry and cool place.

SHELF LIFE: 12 months from the date printed on the packaging.

CONSUMPTION: The consumption changes according to planarity of the support, to the used trowel and to the laying system (simple or double gluing).

Support	Tiled Surface	Laying System	Trowel Type mm.	Consumption kg / m ²
Int. floor.	S<1100	simple gluing	8/10	4/5
	1100<S<3600	double gluing	10/15	6/7
Ext. floor.	400<S<1100	double gluing	8/10	5/6
	1100<S<3600	double gluing	10/15/20	6/7/8
Int. wall	S<400	simple gluing	6	3,5
	400<S<2000	double gluing	8/10	5/6

PRODUCT TECHNICAL DATA

Classification EN 12004:

Basis:

Colour:

Apparent mass volume:

Maximum grain size:

Storage and Duration:

Danger of toxicity:

Inflammable:

Mixture ratio:

Mixture consistency:

Density of paste:

Application temperature:

Pot life:

Open time:

Maximum thickness:

Foot traffic:

Grouting:

Full service:

Final hardening:

Final performance:

Adhesion (after 28 days):

Adhesion after warming:

Adhesion after water immersion:

Adhesion after frost-thaw cycles:

Deformability according EN 12004:

Temperature resistance:

C2S2

Component A: white special cement, selected aggregates, additives

Component B: latex

White

1,3 kg/dm³

1,5 mm

12 months in the original closed package in a cool dry place

Component A: no. The product may cause irritation to the eyes and skin due to presence of cement.

Component B: no

No

25% - 6,25 lt component B for 25 kg bag

Creamy

1,7 kg/dm³

From + 5°C to + 35°C

3 hours

About 10-20 minutes

15 mm

24 hours

24 hours

7 days

14 days

> 1,0 N/mm²

> 1,0 N/mm²

> 1,0 N/mm²

> 1,0 N/mm²

> 5 mm

From -30°C to +90°C

* at +23°C and at 50% relative humidity

PLEASE NOTE: The information given in this chart is based on our best experience and it is indicative only. It must in any event be verified by the end user, who assumes all liabilities deriving from the utilization of the product.