

KM 100

WHITE POLYMER MODIFIED ADHESIVE FOR MARBLE AND GRANITE TILES (C2TE)

A reliable solution for valuable products.

Description : KM 100 is a white cementitious adhesive, based on high-strength Portland white cement (I - 52.5), reinforced with polymer resins, white marble aggregates and special additives to improve adhesion of marble or granite tiles

Usages : Use it for strong adhesions of marble or granite tiles with particular features, such as white or very absorbent marbles, which require adhesion materials with advanced characteristics, to protect their surface and colours.

You can use it also used for the adhesion of ceramic and low-absorbency tiles, decorative bricks, etc.

In case you use it for the adhesion of artificial quartz surface tiles, it is recommended to add MARMOLINE MP 20 acrylic dispersion to the mixture.

KM 100 can be used on any common cementitious-based substrate, on floors or walls, indoors or outdoors.



Advantages:

- Excellent adhesion
- High strength
- Moisture and frost-proof
- Easy to apply - simply add water
- Indoor and outdoor use
- Protects the white and light-colored marbles from stains, cracks and flaking, in case of moisture coming from the substrate.

Packaging /distribution :

- Bags of 25 kg.
- Palette of 1500 kg, 60 paper bags

Storage: 12 months from the date of production in unopened package, in a dry place

Safety precautions : This product contains cement and reacts as alkaline with moisture, so it is classified as irritant. It must be used with care according to the instructions for use. In order to avoid any injuries due to alkalis of the cement, wear gloves, protective glasses and avoid breathing the dust. Please consult the SDS of the product.

Specifications : **EN 12004 (C2TE)**

TECHNICAL DATA:

Colour: White

Adhesion strength:


Average values based on production control laboratory tests:

On concrete after 28 days:	1.7 N/mm ² (EN 1348)
After heating at 70°C:	1.5 N/mm ² (EN 1348)
In water:	1.5 N/mm ² (EN 1348)
After 25 cycles of freezing - thawing:	1.2 N/mm ² (EN 1348)

Slip: <0.5 mm (EN 1308)

Open time for application: 20-30 minutes

Time for minor corrections: 10 minutes

 12 DoP: 001 MARMO-CPR
NORDIA S.A. 364 Kifissias Av., 15233 Chalandri, Athens/ Greece
EN 12004:2007+A1:2012 MARMOLINE KM 100 Improved cementitious adhesive for tiles with reduced slip and extended open time
Reaction to fire: E Initial tensile adhesion strength: $\geq 1.0 \text{ N/mm}^2$ Tensile adhesion strength after heat ageing: $\geq 1.0 \text{ N/mm}^2$ Tensile adhesion strength after water immersion: $\geq 1.0 \text{ N/mm}^2$ Tensile adhesion strength after freeze/thaw cycles: $\geq 1.0 \text{ N/mm}^2$

APPLICATION:**Mixing ratio:** 7 – 7.5 lt of water /bag of 25 kg**Consumption:** 2.5 – 4.0 kg/m², depending on the condition of the surface and the size and type of tile.

- Application mode:**
- Check that the substrate is clean, dry and free from loose particles and other materials.
 - If the substrate is unstable or crumbles, it is recommended to prime the surface with MARMOLINE MST 11 acrylic water based primer
 - Mix with the necessary quantity of water using an electric mixer at low speed, until a homogeneous, lump-free mixture is obtained.
 - Leave the mixture to set for five to ten minutes and stir again
 - Spread with a notched trowel. Choose the size according to the type of tile and the substrate.
 - Tiles must be fixed within 20-30 minutes after applying the adhesive and definitely before it skins-over.
 - Fix the tiles by pressing them gently and then level them
 - The adhesive remains workable in the pot for 3 to 4 hours depending on the season, temperature and humidity in the environment. When the mixture begins to set, stir again without adding water.
 - Proceed to joint-filling after 24 hours for floors and 12 hours for walls.

ATTENTION:

- The content of the bag should be protected from humidity
- Not recommended for use in extreme weather conditions (frost or heatwave). Application temperature +5°C to +35°C

The above application guidelines are indicative, for the correct use of the product. For more technical details please contact the company's technical department.

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