

## FLEX 2000

### FLEXIBLE POLYMER MODIFIED TILE ADHESIVE (C2TES1)

*Strong adhesion, lasts a lifetime.*

**Description :** Cementitious white adhesive for all types of tiles, based on high-strength Portland white cement (I-52.5), reinforced with polymer resins, selected white marble aggregates and special additives to improve adhesion of tiles to difficult, non-absorbent surfaces, where flexible and strong adhesion is required. Proven particularly resistant to humid environment.

**Usages :** Strong adhesion of all types of ceramic tiles, including non absorbent ones, on floors or walls, in dry or wet areas (baths, swimming pools etc.), on floors with underfloor heating etc.

You can use it on various substrates such as: plaster, concrete, aerated concrete, brick wall etc.

For adhesion on gypsum boards or cement sheets, you should first prime the surfaces with MARMOLINE MST 11 acrylic water based primer.

For adhesion on mosaics or old tile floors, you should first prime the surfaces with MARMOLINE PRO CONTACT quartz filled adhesion primer.

**Advantages:**

- High strength • Excellent adhesion • Flexible • Moisture and frost-proof
- Incomparable quality of raw materials • Easy to apply - excellent workability
- No vertical slip of tiles • Indoor and outdoor use

**Packaging /distribution :** Bags of 25 kg. Palette of 1500 kg (60 paper bags)  
Plastic bags of 5 kg. Palette of 960 kg (48 cartons of 20 kg)

**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 (C2TES1)



**TECHNICAL DATA:**

<b>Colour:</b>	White
<b>Specific gravity of wet mortar:</b>	1,55 Kg/lt
<b>Adhesion strength:</b>	
<i>Average values based on production control laboratory tests:</i>	
On concrete after 28 days:	1.8 N/mm <sup>2</sup> (EN 1348)
After heating at 70°C:	1.6 N/mm <sup>2</sup> (EN 1348)
In water:	1.6 N/mm <sup>2</sup> (EN 1348)
After 25 cycles of freezing - thawing:	1.3 N/mm <sup>2</sup> (EN 1348)
<b>Slip:</b>	<0.5 mm (EN 1308)
<b>Transverse deformation:</b>	4.0 mm (EN 12002)
<b>Open time for application:</b>	30 -40 minutes
<b>Time for minor corrections:</b>	10 minutes

 12 DoP: 006 MARMO-CPR
NORDIA S.A. 364 Kifissias Av., 15233 Chalandri, Athens/ Greece
EN 12004:2007+A1:2012 MARMOLINE FLEX 2000 Improved deformable 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: $\geq 1.0 \text{ N/mm}^2$ Transverse deformation: $> 2.5 \text{ mm}$ (class S1)

**APPLICATION:**

**Mixing ratio:** For a 25 kg bag, add approximately 7 liters of clean water

**Consumption:** Approx. 2.5 – 4.0 kg/m<sup>2</sup>, 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 for 3 to 4 hours depending on the season, temperature and humidity in the environment. When the adhesive begins to set, you must 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.

*We guarantee the quality of all our products, on the basis of their technical specifications, as described in the Declaration of Performance (CE) and this technical data sheet. Such guarantee refers only to the products that we deliver for use and never to its application or final result, which largely depend on the experience and quality of work of each user and on the application conditions. The user is advised to test the product on a small scale, and if he is satisfied with the result, then to use the product on large scale in his project. This edition of technical data sheet automatically cancels any previous version*