



Product with the European conformity mark  PRODUCT N<sup>o</sup>. : 3.184

## **TECMACOL FLEX**

**Flexible cementitious glue mortar for laying all types of ceramic tiles**

### **DESCRIPTION:**

**TECMACOL FLEX** is a flexible cementitious monocomponent adhesive specifically designed for coating with ceramic tiles the mortar and concrete surfaces previously protected with our cementitious waterproofing mortars of the **TECMADRY** range and for placing all types of ceramic tiles on many substrates both in doors and outdoors.

### **SCOPE:**

**TECMACOL FLEX** is particularly recommended:

- As an adhesive for ceramic coating on the different cementitious waterproofing mortars of the **TECMADRY** range (e.g. placement of ceramic tiles in swimming pools).
- As adhesive for laying all types of ceramic tiles (absorbent and non-absorbent) on floors and walls both in doors and outdoors.
- For laying tiles on large surfaces and on radiant heating floors.
- As an adhesive for the placement of different types of panels (polystyrene, plasterboard, etc.).

### **ADVANTAGES:**

- Great durability and high resistance to water (tiled pools).
- High flexibility.
- Good adhesion on a variety of supports (cement screed, plasterboard, old ceramic supports, etc.), allowing the placement of tiles of any kind (ceramic, porcelain, marble, granite, natural stone, terracota, etc).
- Applicable both in doors and outdoors.
- Suitable for laying tiles on floors and walls (no pull off).
- Recommended for all types of ceramic tiles (absorbent and non-absorbent).
- Suitable for large tiles (double gluing).
- Easy to use. Only need to knead with water.

### **SURFACE PREPARATION:**

Surfaces must be resistant, stable and be free of any contaminants such as grease, oil, release agent remains, grout, dust, sand, dispersed and badly adhered materials, etc. All substrates must have adequate flatness; otherwise it will be necessary to level the surface up to 5mm (24-48 hours before gluing). For larger thicknesses it is recommended to use the product **PREMHOR**. Before applying **TECMACOL FLEX** over very absorbent surfaces, it is recommended their saturation with water for a better spread of the product.

### **HOW TO USE:**

Mix **TECMACOL FLEX** with clean water into a suitable container and knead by hand or with a mechanical mixer at low speed until a homogeneous and thixotropic consistency to allow adequate workability. They will be used from 5.5 to 6 liters of water per sack of **TECMACOL FLEX** (always using the same amount of water). Always try a pasty mass free of lumps and as homogenous as possible. It is recommended to make the mass with a mechanical mixer. Then let the mixture stand for 5 minutes to get a better setting activation and then knead again gently.

### **APPLICATION:**

- Apply the product with a trowel in an area of approximately 2 m<sup>2</sup> subsequently styling with a toothed trowel to the required thickness. Consumption range from approximately 2.5 Kg / m<sup>2</sup>. for small tiles (<200 cm<sup>2</sup>) and 3-6 mm toothed trowel, up to 4.0 kg / m<sup>2</sup>. for larger tiles and toothed trowel of 10mm.
- Place the different tiles by pressing with a smooth motion until complete crushing of the grooves so that the total adhesive contact with the tile is ensured.



- Respect the different construction joints (expansion, contraction, fraction, perimeter corners, etc.).
- Establish a minimum of 2-3 mm between the different parts (joints between tiles).
- Grouting will be done at least after 24-48 hours depending on the ambient conditions.
- On interior floorings larger than 15 m<sup>2</sup> it is recommended to keep a free perimeter expansion joint between the floor and the wall or pillar, hidden by a baseboard.
- In over 30 m<sup>2</sup> floor leave partition joints to be filled with a deformable material (**SATECMA ELASTIC PM 33 / H2O**).

#### SPECIAL APPLICATIONS:

- In façades and exterior cladding the laying of tiles will be further anchored or mechanical fixed.
- In the application on plasterboard panels or Styrofoam ensure that they are properly secured to prevent any movement.
- On floors with underfloor heating apply when substrate is at room temperature (10-30° C).
- For large tiles (> 750 cm<sup>2</sup>) and outdoor applications double layer (application of adhesive on support and tile) is recommended.


#### CONTRAINdicATIONS:

- Never apply on gypsum, paint or lime.
- Never apply with temperatures above 30 or below 10° C and if there is risk of frost, rain, high winds or strong direct sunshine in the hours following application.
- Never apply on frozen or frosted supports.
- Do not add more water to the mortar than necessary.
- Do not damp the wall excessively when temperatura is low.

#### COLORS:

**TECMACOL FLEX** comes in white color.

#### ACCREDITATION:

Product with the European conformity mark  product complies with European Standard **EN 12004** and **Directive 89/106/EEC on construction products**.

#### TECHNICAL DATA:

Classification according to EN 12004: 2001	C2 TE
Classification according to EN 12002: 2003	S1
Bulk density of the powder component	1,40 g/cm <sup>3</sup>
Particle size distribution (EN 12192-1)	0 – 0,7 mm
Application temperature	from +5 to +30 °C
Bulk density of fresh mortar (EN 1015-6)	1800 kg/m <sup>3</sup>
Pot life	About 2 hours
Adjustment time	30 minutes approx.
Initial adhesion(EN 1348)	> 1,0 N/mm <sup>2</sup>
Adhesion after immersion in water (EN 1348)	> 1,0 N/mm <sup>2</sup>
Adhesion after heat aging (EN 1348)	> 1,0 N/mm <sup>2</sup>
Adherence after freeze-thaw cycles (EN 1348)	> 1,0 N/mm <sup>2</sup>

#### PACKAGING AND STORAGE:

**TECMACOL FLEX** comes in papersacks of 25 Kg. net. The product should be stored in unopened original sacks. The estimated storage in the original sacks period shall not exceed 12 months.

\*\*The information contained on this sheet, as well as our recommendations, both verbal and written or by tests conducted in our laboratories or in external laboratories, are given in good faith based on our experience and results of the tests, without that serve as a guarantee. Our recommendations do not relieve the obligation to know in depth the application of product to use prior to their use and take pre-tests if there is doubt about the suitability of these for any site of application. The application, use and handling of our products are beyond our control and therefore the responsibility of that comes to putting in work. It will therefore be responsible for the person who makes use of the product without the observance of the instructions listed here .\*\*

ED.2011/1