

## PLYSET TILE-FIX FLEX

### ■ Description

-A one-component, cement-based, high-performance, flexible adhesive mortar with reduced slip and extended working time.

### ■ Application area

On exterior facades of buildings 30 m tall, used to safely bond ceramic, granite and marble cladding to substrates such as concrete, plaster and screed.

Used in underfloor heating systems and for ceramic cladding over gypsum boards.

Used for ceramic applications on challenging surfaces such as paint.

On terraces and balcony applications,

Used in places with sudden temperature changes such as cold storage rooms, blast freezers, exterior facades of ovens, and underfloor heating systems.

Used in places exposed to heavy pedestrian traffic such as workplaces, shopping centers, schools and hospitals.

### ■ Application properties

-Pot life: max. 5 hours

-Working time: max. 30 minutes

-Adjustability time: max. 20 minutes

-The time required before joint application is 24 hours on walls and 48 hours on floors

### ■ Surface preparation

-Surfaces where PLYSET TILE-FIX FLEX will be applied must be cleaned of dust, dirt, oil and other residues that may impair adhesion.

-If there are defects on the surface, they are repaired with repair mortar.

-The surface must be cured and sound.

-Porous surfaces must be moistened before application.

-The applied substrate must be a sound supporting layer and properly aligned.

### ■ Application conditions

-Ambient temperature between +5 °C and +35°

-Must not be applied on frozen or thawing surfaces, or on surfaces at risk of frost within 24 hours.

-Must not be applied under direct sunlight, strong wind or on hot surfaces.

-During application, take care that PLYSET TILE-FIX FLEX does not form a skin on its surface; if it does, re-comb the surface.

### ■ Warnings and Recommendations

-Foreign substances must never be added.

-After application, all tools used must be washed with water before drying.

### ■ Application tools

Hand mixer, trowel, rubber mallet, notched steel trowel

### ■ Application

-The mixing container must be clean and free of residues from the previous batch.

-The cleanliness of the water and materials used must be ensured.

-The mortar must be prepared at 9.25-9.75 liters of water 25 kg PLYSET TILE-FIX FLEX.

-First add the liquid component to the container, then slowly sprinkle in the powder and mix until a homogeneous mixture is obtained.

-A low-speed mixer must be used to homogenize the mixture.

-After obtaining a homogeneous mixture, let the mortar mature for 5-10 minutes.

-Before starting application, mix again for 1-2 minutes.

-Once the mixture is homogeneous, no powder, water or other substance must be added.

-For better adhesion, after spreading the mortar with the flat side of the trowel, comb it with the notched side of the trowel selected according to the tile size (see Notch Size and Consumption Table).

-Tiles must be bonded onto the combed mortar within 30 minutes by tapping with a rubber mallet. Under unfavorable conditions such as high temperature, low humidity or wind, this time may shorten.

-Do not bond onto mortar that has exceeded its open time; the mortar must be scraped off the surface.

-The prepared mortar must be used within 5 hours.

- Mortar in the container that has exceeded its pot life or has crusted over must be discarded.
- After application, hands and tools must be washed thoroughly with water.
- Tiles bonded with PLYSET TILE-FIX FLEX must not be exposed to direct water for at least 24 hours.

▪ **Consumption**

Tile Size	Notch Size	Consumption
< 5 cm	3 mm	2kg/m <sup>2</sup>
5-10 cm	4 mm	2-3kg/m <sup>2</sup>
10-20 cm	6 mm	4kg/m <sup>2</sup>
20-40 cm	8 mm	5-6kg/m <sup>2</sup>
>40 cm	10 mm	7-8kg/m <sup>2</sup>

• **Performance Information**

- Tensile adhesion strength after open time: at least after 30 min  $\geq 0,5 \text{ N/mm}^2$
- Initial tensile adhesion strength:  $\geq 1 \text{ N/mm}^2$
- Tensile adhesion strength after immersion in water:  $\geq 1 \text{ N/mm}^2$
- Tensile adhesion strength after heat aging:  $\geq 1 \text{ N/mm}^2$
- Tensile adhesion strength after freeze-thaw cycles:  $\geq 1 \text{ N/mm}^2$
- Slip:  $\leq 0,5 \text{ mm}$
- Flexibility:  $\geq 2,5 \text{ mm (S1)}$
- Temperature resistance:  $-30^{\circ}\text{C}$  and  $+70^{\circ}$
- Note: Application properties values were obtained from laboratory tests ( $23 \pm 2^{\circ}\text{C}$  and  $50\% \pm 5$  humidity, with no air movement) and may vary under different environmental conditions. Performance information values were measured under the conditions specified in the relevant product standard and may vary under different conditions.

• **Reference Standards**

- EN 12004-1 / Class: C2TES1

• **Packaging**

- 25 kg in Kraft bag,
- 64 pieces per pallet, 1600 kg

▪ **Physical state**

- Gray, white powder

• **Storage Conditions**

- During storage, no more than 10 Kraft bags should be stacked.
- Storage must be in covered areas, away from direct sunlight.
- Bags must be stored off the ground and protected from moisture.
- Under these conditions, the product can be stored for 12 months from the date of production.
- +5<sup>0</sup>C and +35<sup>0</sup>, it can be stored for 12 months.
- Improper storage conditions or exceeding the shelf life may impair the product properties.