

# eile FLEX ADHESIVE

## Cement Based High performance Flexible Adhesive Mortar

### Description

It is high performance cement based flexible adhesive mortar with reduced slipping and extended open waiting period used for adhering coating materials such as granite, ceramics, cotto and natural stones.

### The Ministry of Environment and Urban Planning Pos. No: 04.380/008

### Areas of Usage

\*Coating the materials such as ceramics, glass mosaic, natural stones and granites on the indoors and outdoors walls and floors.

\*Wet areas such as swimming pools, water tanks, bathrooms and kitchens.

\*Floor heating systems.

\*Indoors walls;

cement based plasters, exposed concrete, gypsum blocks, gypsum plates and gypsum plaster (**PLASTER E should be applied**), coating on impermeable and bright surfaces (**TU-05 should be applied**)

\*Indoors floors; concrete floors or cement based screed, coating on impermeable and bright surfaces (**TU-05 should be applied**)

\*Outdoor walls, exposed concrete and cement based plaster

\*Outdoor floors;

- Cement based screed,
- Concrete flooring,

### Features of Product

\*It is easy to prepare and apply.

\*It gives long time to work on it.

\*It is highly flexible.

\*It is highly adhesive.

### Application Procedure

#### Surface Preparation

The application surface should be strong, dry, bearing, dust-free as well as leveled. All the residues reducing adherence as well as the loose parts should be removed. Rough surfaces should be repaired using repair mortars **eileTH 60** or **eileTH 70** two days earlier. Porous surfaces should be moisturized and kept until the watery layer disappears.

### Mixing

6 or 7.5 liters of water is poured into a clean mixing bowl by means of a scale. Then, **eile Flex Adhesive Mortar** is slowly added into the bowl. It is mixed with a low speed mixer for 3 - 5 minutes until obtaining a homogenous mixture. The mixture waits for 5 minutes and mixed again for 20-30 seconds to get it ready for use. The notched trowel to be used is determined considering the size of the coating material and the smoothness of the application surface.

### Mixture ratios

6 or 7.5 liters of water for 25 kg powder

0.240 - 0.300 for 1 kg powder

### Application Method

\***eile Flex Adhesive** is applied on the surface as thick as 1 mm using the flat side of the steel trowel.

\***eile Flex Adhesive** is applied unidirectional using the notched side of the trowel on the surface which can be covered within approximately 30 minutes. The surface is prepared for ceramic or granite coating.

\*The open waiting period of the mortar on the application surface is checked on a regular basis. The applied **eile Flex Adhesive Mortar** is slightly pressed down using a finger to check its condition. If the adhesive smudges on the finger, the ceramic or granite application continues. If it does not, it means the adhesive product is no longer suitable for application. In that case, the mortar on the surface should be rubbed out and replaced with the new mortar.

\*The working period of 30 minutes at 23 °C and 50% relative humidity might vary depending on the temperature, humidity and application surface.

\*The application should be double sided if the size of coating materials other than ceramic and tiles (granite ceramic, glazed porcelain) is 500 cm<sup>2</sup> and the coating such as ceramic and tile is 1100 cm<sup>2</sup> or bigger in indoor floor applications

The application should be double sided if the size of coating materials other than ceramic and tiles (granite ceramic, glazed porcelain) is 120 cm<sup>2</sup> and the coating such as ceramic and tile is 500 cm<sup>2</sup> or bigger in indoor wall applications

\* The application should be double sided on the external floors or walls.

\*The grout gaps should be filled using **Pomex Flex Grout Sealant**. The grout application can take place 24 hours later.



# eile FLEX ADHESIVE

## Technical Specifications

**Structure of the material:** Mineral fillings, polymer reinforced special concrete.

**Color:** Grey – White

**Initial tensile adhesion strength:**  $\geq 1$  N/mm<sup>2</sup>

**Transverse Deformation** : 2.5 mm  $\leq$  S1 < 5mm.

**Tensile adhesion strength after immersed in water:**  $\geq 1$  N/mm<sup>2</sup>

**Tensile adhesion strength after thermal aging:**  $\geq 1$  N/mm<sup>2</sup>

**Tensile adhesion strength after freeze-thaw cycle:**  $\geq 1$  N/mm<sup>2</sup>

**Adhesion strength after extended open waiting period (at least 30 min later)** :  $\geq 0.5$  N/mm<sup>2</sup>

**Application Temperature:** +5°C +35°C

**Serving Temperature:** -30°C +80°C

**Waiting Period (Pot Life):** 5 minutes

**Application period:** max. 4 hours

**Slip (mm)** :  $\leq 0,5$ mm.

**Ready to be walked on within:** 24 hours (20 °C)

## Consumption:

Ceramics Size 120 cm<sup>2</sup>  
Ceramic notch size 6x6x6 mm  
Single sided adhesion 4 kg/m<sup>2</sup>  
Double sided adhesion 5-6 kg/m<sup>2</sup>

Ceramics Size between 120 cm<sup>2</sup> and 500 cm<sup>2</sup>  
Ceramic notch size 8x8x8mm.  
Single sided adhesion 5-6 kg/m<sup>2</sup>  
Double sided adhesion 6-7 kg/ m<sup>2</sup>

Ceramics Size between 500 cm<sup>2</sup> (25x20) and 3600 cm<sup>2</sup> (60x60)  
Ceramic notch size 10x10x10mm  
Single sided adhesion 5-6kg /m<sup>2</sup>  
Double sided adhesion 7-8 kg / m<sup>2</sup>

The typical values above are valid for the performances of the applications 28 days after their finish at +23°C for 50% relative humidity. The values might change due to the differences in the worksite environment.

# eile FLEX ADHESIVE

## Points to take into consideration

- \* For **eile Flex Adhesive** application, if the ambient temperature is below +5°C or above +30°C, the suitable conditions should be met. Extremely hot, rainy or windy weather is not suitable for application.
- \*The proper moisture level is required to increase the performance of the adhesive mortar.  
It cannot be applied on metal surfaces and industrial areas.
- \*The ceramics with high water absorbency rate should be saturated with water before the application.
- \*The mortar starting to dry should not be mixed with water or new materials.
- \*For the applications higher than 3 meters on the external and internal walls of the buildings, **eile POMAX 28** should be used.
- \*The porous surfaces should be primed with **eile PRIMER E** before ceramic application.
- \*Impermeable and bright surfaces should be primed with **eile TU 05** or eile TU 06 before application.
- \*Grout applications should take place after 24 hours later on the wall, and 48 hours later on the floor.
- \*Grout holes larger than 6 mm should be filled with **Pomex Rustic Joint**.
- \*The adhered ceramic should be kept away from water for at least 24 hours.

## Cleaning of Tools

The tools and equipment used during the application should be cleaned with water. The material can be removed only mechanically after it hardens.

## Packaging

Kraft sack of 25 kg

**Storage:** Best stored in cool and dry place in unopened package with a maximum 10-fold stacking.

**Shelf Life:** 12 months following the production date under the specified storage conditions.

**Safety Recommendations:** Please wear the coveralls, protective gloves, glasses and mask suitable for occupational health and safety. Make sure that it does not contact the skin and the eyes; in case it does, wash with plenty of water. In case swallowed, contact the closest health care institution immediately. Keep out of the reach of children. Keep food and drinks away from the application areas.

**Responsibility:** In case the recommendations and application conditions specified above are not conformed, the applications (misuse) do not fall under the responsibility of **POMZA EXPORT A.Ş.**, the producer of **eile POMEX branded products**. The user is responsible for whether the product is used in accordance with its purpose, as well as the validity of application conditions and forms. **eile Pomex Construction Chemicals** does not accept any indemnity claim concerning the results, work accidents, direct or indirect damages or losses due to the misapplication of the products.

**Note:** **eile POMEX** reserves the right to improve/revise the product and this technical document over time. This Technical Data Sheet supersedes the former Technical Data Sheet released for this product. The user must make sure that the available technical document is the latest updated version. If necessary, our company must be contacted to inquire the updating status of the document. AUGUST 2014