

POMEX 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.

TS EN 12004-1 C2TES1, EN 12004 CE

Areas of Usage

- * Indoor and outdoor applications, such as the installation of ceramic, glass mosaic, natural stone, and granite, on walls and floors
- *In wet areas like swimming pools, water tanks, bathrooms, and kitchens.
- *Compatible with underfloor heating systems.

Features of Product

- *Easy to prepare and apply.
- *Extended working time.
- *High flexibility.
- *High bonding strength.

Application Procedure

Surface Preparation

The application surface should be strong, dry, load bearing, dust-free, and leveled. Any residues that may reduce adhesion must be thoroughly cleaned, and there should be no loose particles on the surface. Rough surfaces should be repaired with **eile TH 60** or **eile TH 70** repair mortars at least two days prior to application. The surface should be moistened and saturated with water, but no free water should remain on the surface.

Mixing

According to the seasonal temperatures, 6 or 7.5 liters of water is poured into a clean mixing container (the amount of water that should be used increases in hot weather). **POMEX Flex Adhesive** is slowly added to the water. It is then mixed with a low-speed mixer for 3-5 minutes until a homogeneous mixture is obtained. After resting for 5 minutes, the material is mixed again for 20-30 seconds, making it ready for use. The toothed trowel to be used is determined based on the size of the covering material and the smoothness of the surface to be applied.

Mixture ratios

For 25 kg of powder: 6-7.5 liters of water
For 1 kg of powder: 0.240-0.300 liters

Application Method

- * **Pomex Flex Adhesive** is applied on the surface as thick as 1 mm using the flat side of the steel trowel.
- ***Pomex 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.
- *Check the open waiting time of the applied surface at intervals. During the open waiting time check, lightly press on the applied POMEX Flex Adhesive with your finger. If the adhesive sticks to your fingers, continue with the ceramic or granite application. Otherwise, the working time of the adhesive has passed, so the mortar on the surface should be removed, and new mortar should be applied in its place.
- *The working time is 30 minutes at 23°C and 50% relative humidity, which may vary depending on temperature, humidity, and application surface conditions.
- *The application should be double sided if the size of coating materials other than ceramic and tiles (granite ceramic, glazed porcelain) is 500 cm² and the coating such as ceramic and tile is 1100 cm² 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 cm² and the coating such as ceramic and tile is 500 cm² 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.

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Technical Specifications

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

Color: Grey - White

Initial tensile adhesion strength: ≥ 1 N/mm²

Transverse Deformation : $2.5 \text{ mm} \leq S1 < 5 \text{ mm}$.

Tensile adhesion strength after immersed in water: ≥ 1 N/mm²

Tensile adhesion strength after thermal aging: ≥ 1 N/mm²

Tensile adhesion strength after freeze-thaw cycle: ≥ 1 N/mm²

Adhesion strength after extended open waiting period (at least 30 min later) : ≥ 0.5 N/mm²

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) : $\leq 0,5 \text{ mm}$.

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

Consumption:

Ceramics Size 120 cm²
Ceramic notch size 6x6x6 mm
Single sided adhesion 4 kg/m²
Double sided adhesion 5-6 kg/m²

Ceramics Size between 120 cm² and 500 cm²
Ceramic notch size 8x8x8mm.
Single sided adhesion 5-6 kg/m²
Double sided adhesion 6-7 kg/ m²

Ceramics Size between 500 cm² (25x20) and 3600 cm² (60x60)
Ceramic notch size 10x10x10mm
Single sided adhesion 5-6kg /m²
Double sided adhesion 7-8 kg / m²

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.

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Important Points

*If the ambient and surface temperature is below +5°C or above +35°C, suitable temperatures should be awaited before applying POMEX Flex Adhesive. Avoid application in extremely hot, rainy, or windy conditions.

*To enhance the performance of the adhesive, appropriate humidity levels are necessary.

*Not suitable for application on metal surfaces or in industrial areas.

*Ceramics with high water absorption should be saturated with water before application.

*Do not add water or new material to the drying mortar.

*For applications higher than 3 meters on both interior and exterior walls, use POMAX 28.

*On highly porous surfaces, apply Primer E before ceramic application.

*On impermeable and glossy surfaces, apply TU 05 or TU 06 primer before application.

*Joint application can be done on the wall after 24 hours and on the floor after 48 hours.

*Gaps wider than 6 mm should be filled with Pomex Rusik Joint Sealer.

*Direct contact of the applied ceramics with water should be prevented for at least 24 hours.

Cleaning of Tools

Tools and equipment used should be cleaned with water after application. Once the material hardens, it can only be mechanically removed from the surface.

Package

25 kg craft bag

Storage

It should be stored in its original package in a cool and dry environment with a maximum 10-fold stacking.

Shelf Life

Under the specified storage conditions, the shelf life is 12 months from the date of manufacture.

POMZA EKSPORT MADENCİLİK SANAYİ VE TİCARET A.Ş Menderes -İZMİR/TÜRKİYE 24 SRY 5	
TS EN 12004-1 (ÇİMENTO ESASLI SERAMİK VE FAYANS YAPIŞTIRICISI (C2TE S1))	
Slip	≤0,5 mm
Tensile adhesion strength after immersed in water	≥1 N/mm ²
Tensile adhesion strength after thermal aging	≥1 N/mm ²
Tensile adhesion strength after freeze-thaw cycle	≥1 N/mm ²
Adhesion strength after extended open waiting period (at least 30 min later)	≥0,5 N/mm ²
Reaction To Fire	A1

Safety Recommendations: During application, appropriate workwear, protective gloves, goggles, and masks in accordance with occupational health and safety regulations must be worn. Avoid contact with skin and eyes; if contact occurs, wash thoroughly with plenty of water. In case of ingestion, seek medical attention immediately. Store out of the reach of children. No food or drink should be kept in the areas where the application is taking place.

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