

FLEX PLUS

Tile Adhesive Mortar – C2TES2



PRODUCT DESCRIPTION

Highly deformable, slip-resistant, enhanced cement-based adhesive mortar with extended open time. It is designed for the installation of large-format ceramic tiles on new and existing interior and exterior walls and floors.

FIELDS OF APPLICATION

Nature of Coating : Ceramic tiles (porcelain stoneware) and natural stones (marble, limestone, granite) of all porosities and large formats.

Maximum Tile Size : 36.000 cm².

Limitations of Use :

- Plaster Substrates, Special Substrates (Metal, Polyester, Wood)
- Pools and Water Basins.

PRODUCT CHARACTERISTICS & PERFORMANCES

Application Characteristics:

Water-to-Powder Ratio	Approx. 25 %
Mixing Time	Approx. 3 min
Maturation Time	Approx. 5 min
Open Time	Approx. 30 min
Working Time	Approx. 3 hours
Grouting Delay	Minimum 24 hours
Accessibility	24 to 48 h after grouting

Packaging:	25kg bag.
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Application

Substrate Preparation :

- Substrates must be clean, flat, sound, and solid (cement-based substrates must not exude moisture).
- Concrete slabs must be at least 1 month old.
- Cement screeds: minimum 15 days.
- Cement renders: minimum 48 hours.
- In hot or windy conditions, moisten substrates a few hours before application.
- Cellular concrete must be moistened prior to mortar application.

Product Preparation :

- In a container with approx. 6.25 liters of clean water, mix one 25 kg bag of **SOFAPCOL FLEX PLUS** until a smooth, homogeneous paste is obtained (preferably using a low-speed electric mixer).
- Let the mix rest briefly, then remix before application.

Application :



- Apply the adhesive mortar using a trowel
- Adjust the thickness with a notched trowel suited to the tile size and surface texture.
- In some cases, apply using the double-spread method (refer to DTU 52.2).

PRODUCT ADVANTAGES

- Ready to mix.
- Enhanced formulation
- High slip resistance
- Extended open time.
- Highly flexible (S2 classification).
- Reinforced adhesion.
- Suitable for new and existing substrates.
- Ideal for very large tile formats.

Color :

- White.

Composition :

- Hydraulic binder, mineral fillers, and additives.

Storage :

- 12 months in original sealed packaging, stored away from moisture.

Normative Characteristics EN 12004:

Initial tensile adhesion strength	≥ 1N/mm ²
Tensile Adhesion After Heat Exposure	≥ 1N/mm ²
Adhesion after Water Immersion	≥ 1N/mm ²
Adhesion After Freeze–Thaw Cycles	NPD
Tensile Adhesion After Extended Open Time (E)	≥ 0.5N/mm ²
Slip (T)	≤ 0.5mm
Transverse Flexibility (S2)	≥ 5 mm

NPD : No Performance determined

All values indicated in this technical data sheet are based on laboratory tests. They may be significantly modified by application conditions.



Consumption:

Depending on adhesive thickness.
Around 2 Kg /m² per 1 mm thickness.

Note: The adhesive thickness depends on the condition of the substrate, the size and texture of the tile, the application method, and the type of notched trowel used.

Application Temperature: Between 5°C and 35°C.

Recommendation :

- **FLEX PLUS** is particularly recommended for façades, terraces, heated floors, and very large-format tiles (>10,000 cm²).
- Do not spread adhesive over large areas (beyond 2 m²) to avoid exceeding the open time.
- Avoid application during freezing conditions, extreme heat, rain, or direct sunlight.

LEGAL NOTICE

• The technical characteristic values are average statistical values and may be updated without notice. This document is non-contractual, and no responsibility is accepted for damage resulting from improper use.

REFERENCE DOCUMENTS

- NF EN 12004 - DTU 52.1 - DTU 52.2

For more information, refer to DTU 52.2 and/or our SOFAPCOL selection guide.

