

Release 3: 22/10/2025

KP450 rapid

fast-setting polymer-modified tile adhesive

C2 FT type

- Tiled surfaces ready for grouting after 3 hours
- Resistance to moisture
- Suitable for ceramic and gres porcelain tiles
- Suitable for interior and exterior applications
- Type C2 FT cementitious adhesive certified according to EN 12004-1

















KP 450 RAPID

fast-setting polymer-modified tile adhesive

DESCRIPTION

Fast-setting, polymer-modified, cement-based tile adhesive. It exhibits increased initial and final adhesion strength, no vertical slip and resistance to moisture and temperature changes. Tiled surfaces can be walked and grouted after 3-4 hours depending on ambient conditions. Produced in white and grey.

Classified as C2 FT type cementitious adhesive according to European standard EN 12004-1.

APPLICATIONS

Suitable for the installation of absorbent (ceramic) and non-absorbent tiles (gres porcelanato, granite tiles), as well as decorative natural or artificial stones.

It can be applied on walls and floors over concrete, floor screeds, masonry, renders, etc.

Also on drywall surfaces (gypsum-boards, cementboards, fiber-boards, etc.), which are recommended to be primed with the acrylic quartz primer FINO•CONTACT prior to tile installation.

It is also suitable for installing tiles over existing floors (old tile coverings, terrazzo, etc.), provided that the surface has been properly prepared with FINO • CONTACT primer.

It is ideal for applications requiring quick return to service (e.g. refurbishment works, store renovations, etc.). Suitable for both interior and exterior applications.

PROPERTIES / ADVANTAGES

- The tiled surfaces are ready for grouting after only 3 hours.
- High adhesive strength.
- Resistance to moisture and temperature changes.
- Protects natural stones from visual alterations and efflorescence formation.
- Excellent workability.
- Suitable for both interior and exterior applications.

HARMONIZED STANDARDS / REGULATIONS

■ EN 12004-1: Fast-setting, improved cementitious adhesive with reduced slip, type C2 FT.

Regulation (EC) No. 305/2011: CE marked product with Declaration of Performance (DoP): KP450 G/CPR-7-13/022/09-2021 and KP450W/CPR-7-13/023/09-2021, for grey and white product respectively.

APPLICATION INSTRUCTIONS

- The substrate must be clean of dust, grease, subtle materials, etc., prior to application.
- In the case of weak and/or highly absorbent substrates, they must first be primed with the micromolecular, deep-penetrating primer ACRYLIC PRIMER.
- Existing floors and non-absorbent surfaces must be primed with the acrylic, quartz, adhesion promoting primer FINO • CONTACT.
- For the application of the adhesive on cement boards, gypsum boards and gypsum plaster the surface must be pre-treated with FINO • CONTACT primer.
- The content of the bag (20kg) is gradually added into 5.2-5.4 kg of clean water under continuous stirring, until a homogeneous, lump-free mixture with the desired workability is achieved. It is recommended to use a low speed electric mixer (~300rpm).
- The mixture should be allowed to mature for about 5 minutes and then be re-mixed briefly.
- The adhesive is applied on the substrate with a notched trowel and then the tiles are placed in their desired position with light pressure.
- Tile installation must be completed within 15 minutes after applying the adhesive to the substrate to prevent skin formation.
- The adhesive remains workable for approximately 1 hour, depending on ambient conditions. Do not add water once the mixture begins to set in the container.
- The tiled surfaces are ready for grouting and light foot traffic after 3-4 hours, depending on ambient conditions. Full mechanical strength is achieved after 14 days.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with water immediately after use. Hardened material can only be mechanically removed.

RECOMMENDATIONS

- Temperature during application should be between +5°C and +35°C.
- Don't use excess water for mixing as it will affect the performance of the product.
- Don't mix the product with cement, aggregates or admixtures.
- Do not add water once the mixture has begun to set.

- Do not apply the product outdoors when rain or frost is imminent within the next 24 hours.
- For applications over weak, highly absorbent, or nonabsorbent substrates (such as existing tile or terrazzo floors), proper substrate preparation with a suitable primer is required.
- When applying the adhesive over gypsum boards or gypsum plaster, the surface must first be neutralized with an appropriate primer.

TECHNICAL CHARACTERISTICS		
PRODUCT CHARACTERISTICS		
Appearance		cementitious powder
Colour		white/grey
Bulk density		1.45 ±0.05 kg/l
APPLICATION CHARACTERISTICS (+23°C / 50% R.H.)		
Mixing ratio		26-27% b.w. (5.2-5.4 kg of water/20kg bag)
рН		> 11
Density		1.60 ±0.05 kg/l
Pot life		1 hour (22°C)
Application temperature		minimum: +5°C / maximum: +35°C
Application thickness		≤ 10 mm
Consumption		about 2-5 kg/m ² depending on the substrate's roughness and the dimensions of the tiles
Open time (EN 12004-2, 8.1)		15 minutes (22°C)
Vertical slip (EN 12004-2, 8.2)		< 0.4 mm
Grouting on wall		after 3-4 hours
Grouting on floor		after 3-4 hours
Surfaces ready for light foot traffic		after 3-4 hours
Surfaces ready for use		after 14 days
PERFORMANCE CHARACTERISTICS		
Tensile adhesion strength (EN 12004-2, 8.3)	early, after 6 hours	> 0.50 N/mm ²
	early, after 28 hours	> 1.00 N/mm ²
	initial, after 28 days	> 1.50 N/mm ²
	after heat ageing	> 1.40 N/mm ²
	after water immersion	> 1.10 N/mm ²
	after freeze-thaw cycles	> 1.00 N/mm ²
Resistance to alkalis		excellent
In use temperature		from -30°C to +90°C

Note: Measurements were conducted in a laboratory environment. The varying conditions present on-site (temperature, humidity, ventilation, substrate absorbency) may affect the material's properties.

SAFETY PRECAUTIONS

- The product contains cement which has an alkaline reaction with water and is classified as irritant.
- Always wear appropriate personal protective equipment for eyes and skin (protective clothing, gloves and goggles).
- If skin contact occurs, rinse well with plenty of clean water.
- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

- Refer to the product's Safety Data Sheet for further information on safe handling and precautions.
- PRODUCT FOR PROFESSIONAL USE ONLY.

PACKAGING - STORAGE

Available in:

20kg paper bags.

Storage: 12 months from production date, if stored in original, sealed packaging, protected from direct sunlight and moisture.

LEGAL NOTICE

The technical characteristics and recommendations for the use and application of the FINOMIX range of products are based on the knowledge and experience of the company. The above information shall be considered merely indicative and subject to confirmation after long-term practical application. For this reason, anyone who intends to use the product must

ensure that it is suitable for the envisaged application. Since the specific site conditions during the applications are beyond the control of our company, the user alone is fully responsible for any consequences deriving from the use of the product. FINOBETON S.A. (FINOMIX) has the right to modify the properties of its products without prior notice. This release voids any previous publications issued for this technical specifications sheet.







