



FINOMIX®
DRY MORTARS

Technical Data Sheet

Release 2: 12/02/2020

KP 250 special

**high performance
polymer-modified
tile adhesive**

C2 TE type

- Suitable for absorbent and non-absorbent tiles
- High adhesion strength
- Resistance to moisture
- Extended open time for tile application
- Strongly thixotropic: prevents vertical sliding of the tiles during application
- Type C2 TE cementitious adhesive certified according to EN 12004-1



KP 250 SPECIAL

high performance
polymer-modified tile adhesive

DESCRIPTION

High performance, cement-based tile adhesive, modified with enhancing polymers, for the installation of ceramic and porcelain tiles.

It exhibits increased initial and final adhesion strength, zero vertical slip, extended open time and increased resistance to moisture and temperature changes.

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

APPLICATIONS

KP 250 SPECIAL is suitable for the installation of absorbent (ceramic) and non-absorbent tiles (granite tiles, gres porcelanato) of medium size, as well as for the installation of decorative natural or artificial stones.

It is applied on wall and floor surfaces over common substrates such as concrete, floor screeds, masonry, renders, etc., as well as on gypsum, cement or fiber boards, provided that their surface has been primed beforehand.

Suitable also for installing tiles on existing floors (old tiles, terrazzo, etc.) provided that the surface is treated with a suitable primer.

Suitable for indoor and outdoor applications.

PROPERTIES / ADVANTAGES

- High initial and final adhesive strength.
- Strongly thixotropic. - Zero vertical slip of the tiles during application.
- Extended open time for tile application.
- Resistance to moisture.
- Excellent workability.
- Suitable for indoor and outdoor applications.
- The product demonstrates low VOC emissions, verified through testing in an independent, accredited laboratory.

HARMONIZED STANDARDS / REGULATIONS

- EN 12004-1: Improved cementitious adhesive with reduced slip and extended open time, type C2 TE.
- Regulation (EE) No. 305/2011: CE marked product with Declaration of Performance (DoP): KP250/CPR-7-13/019/10-2013.

APPLICATION INSTRUCTIONS

- The substrate must be clean from dust, grease, subtle materials, etc., prior to application.
- In case of weak, very absorbent substrates, prime the surface with the micromolecular, deep-penetrating primer **ACRYLIC PRIMER**.
- Existing floors and non-absorbent surfaces should be first primed with the acrylic, quartz filled, 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 **ACRYLIC PRIMER** or **FINO•CONTACT**.
- The content of the bag (25kg) is gradually added into 6.75-7.00 kg of clean water under continuous stirring until a homogenous mixture without lumps is formed, having the desired workability. It is recommended to use a low speed electric mixer (~300rpm).
- The mixture should be left to mature for about 5 minutes and then be slightly stirred again.
- The adhesive is applied on the substrate with a notched trowel and then the tiles are pressed gently in the desired position.
- The tiles should be placed within 30 minutes from the application of the adhesive, depending on the environmental temperature and moisture, in order to avoid "film" formation on the surface of the adhesive.
- The adhesive has a pot life of about 4 hours depending on the ambient conditions. When it starts to stiffen, it must be stirred again without adding water.
- The surfaces can be grouted after 12 hours for walls and 24 hours for floors. The tiled surfaces are ready for light foot traffic after 24 hours. Final 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.
- Do not mix the product with dirty or salty water.

- 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 after the mix has started to set.
- Do not apply the product outdoors when rain or frost is imminent in the next 24 hours.
- In case of very absorptive substrates (aerated concrete elements) or slight absorptive substrates (old mosaics, old tiles), the surface must be pre-treated with a suitable primer.

- For the application of the adhesive on gypsum boards and gypsum plasters the surface must be neutralized with a suitable primer.
- **KP 250 SPECIAL** can be elastified by mixing it with the special admixture **FINOFLEX** diluted 1:1 with water. It is then classified as C2 TE S1 adhesive and can be used for applications that require increased adhesive strength, flexibility and moisture resistance (underfloor heating, terraces, swimming pools, etc.). Refer to product's Technical Data Sheet for further instructions.

TECHNICAL CHARACTERISTICS		
PRODUCT CHARACTERISTICS		
Appearance		cementitious powder
Colour		white
Bulk density		1.45 ±0.05 kg/l
APPLICATION CHARACTERISTICS (+23°C / 50% R.H.)		
Mixing ratio		27-28% b.w. (6.75-7.00 kg of water / 25kg bag)
pH		> 11
Density		1.60 ±0.05 kg/l
Pot life		3-4 hours (22°C)
Application temperature		minimum: +5°C / maximum: +35°C
Application thickness		≤ 10 mm
Consumption		approximately 2-5 kg/m² depending on the substrate's roughness and the dimensions of the tiles
Open time (EN 12004-2, 8.1)		30 minutes (22°C)
Vertical slip (EN 12004-2, 8.2)		< 0.4 mm
Ready for grouting on wall		after 10-12 hours
Ready for grouting on floor		after 24 hours
Surfaces ready for light foot traffic		after 24 hours
Surfaces ready for use		after 14 days
PERFORMANCE CHARACTERISTICS		
Tensile adhesion strength (EN 12004-2, 8.3)	initial, after 28 days	> 1.60 N/mm²
	after heat ageing	> 1.40 N/mm²
	after water immersion	> 1.10 N/mm²
	after freeze-thaw cycles	> 1.30 N/mm²
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.

- Consult product's Safety Data Sheet for further instructions on safety handling.
- **PRODUCT FOR PROFESSIONAL USE.**

PACKAGING - STORAGE

Available in:

- 25kg 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.