



**FINOMIX**<sup>®</sup>  
DRY MORTARS

## Technical Data Sheet

Release 2: 12/02/2020

# KP 250 special

**high performance  
polymer-modified  
tile adhesive**

- Suitable for ceramic and gres porcelain tiles
- High adhesion strength
- Resistance to moisture
- Extended open type
- Strongly thixotropic: prevents vertical sliding of the tiles during application
- Suitable for indoors and outdoors
- C2TE adhesive certified according to EN 12004-1



# KP 250 SPECIAL

high performance  
polymer-modified tile adhesive

## DESCRIPTION

High performance, polymer-modified, cement-based tile adhesive. It exhibits high adhesion strength, extended open time and resistance to moisture. Classified as C2TE type cementitious adhesive according to European standard EN 12004-1.

## APPLICATIONS

Suitable for the installation of absorbent (ceramic) tiles of any type and size, natural stones, as well as non-absorbent tiles (gres porcelanato, cotto, etc.) of small and medium sizes.

It is applied on floors, on common substrates such as concrete, floor screeds, etc. 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 adhesion strength.
- Highly thixotropic. - No vertical slip of tiles during application.
- Extended open time for tile application.
- Resistance to moisture and temperature changes.
- Protects natural stones from optical changes and efflorescence formation.
- Excellent workability.
- Suitable for indoors and outdoors.

## HARMONIZED STANDARDS / REGULATIONS

EN 12004-1: Improved cementitious adhesive with reduced slip and extended open time, type C2TE. DoP no.: 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 6.50-6.75 kg of clean water under continuous stirring, until a homogenous mixture with the desired workability is formed, without lumps. It is recommended to use a low speed electric mixer (~300rpm).
- The mixture should be left to settle for about 5 minutes and then stirred again slightly.
- The adhesive is applied on the substrate with a toothed trowel and the tiles are fixed to the desired position by pressing.
- If the mix starts to stiffen, stir it again without adding extra water, in order to regain its workability.
- The tiles should be laid within 30 minutes from the application of the adhesive in order to avoid "film formation" on the surface of the adhesive.

## 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 after the mix has started to set.

TECHNICAL CHARACTERISTICS		
PRODUCT CHARACTERISTICS		
Appearance		powder
Colour		white
Bulk density		1.45 ±0.05 kg/l
APPLICATION CHARACTERISTICS (+23°C / 50% R.H.)		
Mixing ratio		26% w/w (6.5kg of water per 25kg bag of KP 250)
pH		> 11
Density		1.60 ±0.05 kg/l
Pot life		4 hours (22°C)
Application temperature		minimum: +5°C / maximum: +35°C
Application thickness		≤ 10 mm
Consumption		about 2-4 kg/m²
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:** Measures were carried out in laboratory environment conditions (temperature +22°C, R.H.: 60% with no ventilation). The different conditions in the manufacture plant (temperature, humidity, ventilation, substrate absorption) may affect the properties of the material.

#### 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.

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