



FINOMIX[®]
DRY MORTARS

Technical Data Sheet

Release 1: 28/07/2022

KP 230 extra **FIBER**

**high performance
polymer-modified
tile adhesive
reinforced with microfibers**

C2 TE type

- Advanced Microfiber technology
- Reduced shrinkage -
High adhesive strength
- 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 230 EXTRA FIBER

high performance polymer-modified tile adhesive reinforced with microfibers

DESCRIPTION

Cement-based tile adhesive, modified with enhancing polymers and microfibers, for the installation of ceramic and porcelain tiles.

It exhibits increased initial and final adhesive strength, zero vertical slip, extended open time and increased resistance to moisture. The special microfibers offer excellent workability characteristics, while they tri-dimensionally reinforce its structure reducing shrinkage and increasing adhesive strength.

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

APPLICATIONS

KP 230 EXTRA FIBER is applied on wall and floor surfaces, on usual substrates like concrete, cementitious screeds or plaster, brickwork, aerated concrete elements, cement or gypsum boards. It is suitable also for installing tiles on existing floors (tiles, terrazzo, etc.) provided that the surface is treated with suitable primer. It can be used to install ceramic, terrazzo, cotto and porcelain tiles of most common sizes (max. 3600cm²), as well as natural and artificial stones.

Suitable for indoor and outdoor applications.

PROPERTIES / ADVANTAGES

- Advanced Microfiber technology.
- High initial and final adhesive strength.
- Strongly thixotropic. - Zero vertical slip of the tiles during application.
- Extended open time for tile application.
- Resistant to moisture and temperature changes.
- Excellent workability.
- Suitable for indoor and outdoor applications.

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): KP230/CPR-7-13/092/05-2022.

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 230 EXTRA FIBER** 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/lt

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/lt
Pot life	4 hours (22°C)
Application temperature	minimum: +5°C / maximum: +35°C
Application thickness	≤ 10 mm
Consumption	approximately 2-5 kg/m ² 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
Grouting on wall	after 10-12 hours
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	> 1.75 N/mm ²
	after thermal ageing (70°C)	> 1.55 N/mm ²
	after water immersion	> 1.10 N/mm ²
	after freeze-thaw cycles	> 1.20 N/mm ²
Resistance to alkalis		excellent
In use temperature		from -30°C to +90°C

Note: Measures were carried out in laboratory environment conditions. The different conditions on site (temperature, humidity, wind, 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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