



FINOMIX®
DRY MORTARS

Technical Data Sheet

Release 3: 28/07/2022

KP 100 acrylic acrylic tile adhesive

- High adhesive strength
- Resistance to moisture
- Strongly thixotropic: prevents vertical sliding of the tiles during application
- Type C1T cementitious adhesive certified according to EN 12004-1



KP 100 ACRYLIC

acrylic tile adhesive

DESCRIPTION

Cementitious tile adhesive modified with enhancing polymers, for fixing of ceramic tiles.

It exhibits high adhesive strength, as well as zero vertical slip, and resistance to moisture.

Classified as type C1T cementitious adhesive according to European standard EN 12004-1.

APPLICATIONS

KP 100 ACRYLIC is applied on wall and floor surfaces, on usual substrates like concrete, floor screeds, masonry, renders, etc.

It is suitable for the installation of any type of absorbent tiles such as ceramic, cement tiles, marble or stone tiles, etc.

Suitable for indoor and outdoor applications.

PROPERTIES / ADVANTAGES

- High initial and final adhesive strength.
- Strongly thixotropic. - Zero vertical slip of the tiles during application.
- Resistant to moisture.
- Excellent workability.
- Suitable for indoor and outdoor applications.

HARMONIZED STANDARDS / REGULATIONS

- EN 12004-1: Normal setting cementitious tile adhesive with reduced vertical slip, type C1T.
- Regulation (EE) No. 305/2011: CE marked product with Declaration of Performance (DoP): KP100/CPR-7-13/015/10-2013.

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.
- The content of the bag is gradually added into the necessary 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 20 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.
- The product should not be used:
 - On very porous and brittle surfaces (AAC blocks, etc.) without prior priming the surface with **ACRYLIC PRIMER**.
 - On plasterboards, cementboards, fiberboards without prior modification of the adhesive with the special

polymer resin **FINOFLEX** and priming the surface with acrylic quartz primer **FINO•CONTACT**.

- On surfaces subject to contraction-expansion (terraces, balconies, under-floor heating applications, etc.) and surfaces with excess moisture presence (swimming pools, baths, etc.).
- For the installation of porcelain tiles and large format tiles.
- Areas with heavy traffic (garages, parking lots, etc.).
- Old tile layers.
- **KP 100 ACRYLIC** can be elastified by mixing it with the special admixture **FINOFLEX** diluted 1:1 with water. It is then classified as C1T S1 adhesive and can be used for applications that require increased adhesive strength, flexibility and moisture resistance. Refer to product's Technical Data Sheet for further instructions.

TECHNICAL CHARACTERISTICS

PRODUCT CHARACTERISTICS

Appearance	cementitious powder
Colour	white
Bulk density	1.50 ±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) (1.35-1.40 kg of water / 5kg bag)
pH	> 11
Density	1.60 ±0.05 kg/lt
Pot life	3-4 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)	20 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	> 1.30 N/mm ²
	after thermal ageing (70°C)	> 0.88 N/mm ²
	after water immersion	> 0.75 N/mm ²
	after freeze-thaw cycles	> 0.70 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:

- 5kg plastic bags
- 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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