

# KP 450 rapid

**fast-setting  
polymer-modified  
tile adhesive**

- Tiles ready to be grouted after 3 hours
- Resistance to moisture
- Suitable for ceramic and gres porcelain tiles
- Suitable for indoors and outdoors
- C2FT 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. Classified as C2FT type cementitious adhesive according to European standard EN 12004-1. Produced in white and grey.

#### APPLICATIONS

For the installation of absorbent (ceramic) and non-absorbent tiles (gres porcelanato), as well as decorative natural or artificial stones. It is applied on walls and floors, on common substrates (e.g. concrete, floor screeds, masonry, renders, etc.). Also on drywall surfaces (gypsum-boards, cement-boards, fiber-boards, etc.). It is recommended, these surfaces to be treated with **FINO•CONTACT** primer before tile installation. Also suitable for installing tiles over existing floors (old tile layers, terrazzo, etc.) provided that the surface is treated with **FINO•CONTACT** primer. It is ideal for cases where the surfaces must be used in a short time (refurbishment works, etc.). Suitable for indoor and outdoor applications.

#### PROPERTIES / ADVANTAGES

- Tiles are ready to be grouted after only 3 hours.
- High adhesion strength.
- 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: Fast-setting, improved cementitious adhesive with reduced slip, type C2FT.

**GREY** DoP no.: KP450G/CPR-7-13/022/09-2021

**WHITE** DoP no.: KP450W/CPR-7-13/023/09-2021

#### 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 **FINO•CONTACT** primer.
- 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.
- The tiles should be laid within 15 minutes from the application of the adhesive in order to avoid "film formation" on the surface of the adhesive.
- The adhesive has a pot life of 1 hour depending on the ambient conditions. Don't add water after it starts to stiffen.
- The tiled surfaces are ready for light foot traffic after 3-4 hours depending on ambient conditions. 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.
- 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 under rain or if frost is expected within the next 24 hours.

TECHNICAL CHARACTERISTICS		
PRODUCT CHARACTERISTICS		
Appearance		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. (6.50-6.75 kg/25kg bag)
pH		> 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 2-4 kg/m² 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
Ready for grouting on wall		after 3-4 hours
Ready for 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/mm²
	early, after 28 hours	> 1.00 N/mm²
	initial, after 28 days	> 1.50 N/mm²
	after heat ageing	> 1.40 N/mm²
	after water immersion	> 1.10 N/mm²
	after freeze-thaw cycles	> 1.00 N/mm²
Resistance to alkalis		excellent
In use temperature		from -30°C to +90°C

**Note:** Measures were carried out in laboratory environment conditions 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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