



**FINOMIX**<sup>®</sup>  
DRY MORTARS

Technical Data Sheet

Release 2: 12/02/2020

# KP 500 elastic

**high performance  
elastic  
polymer-modified  
tile adhesive**

- Suitable for large format tiles
- Suitable for underfloor heating applications
- Resistance to moisture, frost and temperature changes
- Extended open type for tile application
- Strongly thixotropic:  
prevents vertical sliding  
of the tiles during application
- C2TES1 adhesive certified  
according to EN 12004-1



# KP 500 ELASTIC

high performance elastic  
polymer-modified tile adhesive

## DESCRIPTION

High performance, elastic, polymer-modified, cement-based tile adhesive. It exhibits strong adhesion strength and exceptional resistance to moisture, frost and temperature changes. It provides excellent workability, no vertical slip and extended open time.

Classified as C2TES1 type cementitious adhesive according to European standard EN 12004-1.

## APPLICATIONS

Suitable for the installation of large-format tiles up to 1.20x1.20m, glass mosaic tiles, terrazzo and any other type of absorbent and non-absorbent tiles.

It is applied on walls and floors, on concrete, floor screeds, masonry, render and over existing floors (old tile layers, terrazzo, etc.). Ideal for applications in moist areas and on substrates subject to contraction-expansions, heavy traffic, and thus with high demands for adhesion, flexibility and moisture resistance (e.g. swimming pools, under floor heating installations, terraces, balconies, shopping centers, hotels, etc.).

Also, on gypsum, cement or fiber boards, provided they are treated with suitable primer.

For indoor and outdoor applications.

## PROPERTIES / ADVANTAGES

- Deformable cementitious adhesive mortar type S1, for applications on substrates subject to movements and contraction-expansions.
- High adhesion strength.
- Highly thixotropic. - No vertical slip of tiles during application.
- Extended open time for tile application.
- Resistance to moisture, frost and temperature changes.
- Excellent workability.
- Suitable for indoors and outdoors.

## HARMONIZED STANDARDS / REGULATIONS

EN 12004-1: Improved cementitious adhesive with reduced slip and extended open time, type C2TES1.

DoP no.: KP500/CPR-7-13/024/10-2013.

## 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 7kg 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	28% w/w (7kg of water per 25kg bag of KP 500)	
pH	> 11	
Density	1.60 ±0.05 kg/l	
Pot life	5 hours (22°C)	
Application temperature	minimum: +5°C / maximum: +35°C	
Application thickness	≤ 10 mm	
Consumption	about 2-4 kg/m <sup>2</sup>	
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	> 2.00 N/mm <sup>2</sup>
	after heat ageing	> 1.80 N/mm <sup>2</sup>
	after water immersion	> 1.20 N/mm <sup>2</sup>
	after freeze-thaw cycles	> 1.60 N/mm <sup>2</sup>
Deformability (EN 12004-2, 8.6)	S1 - deformable (2.50 mm ≤ S < 5.00 mm)	
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.

**FINOBETON S.A.**  
16 Pithagora Str., 73134 Chania, Greece  
tel. +3028210 27000 ■ fax +3028210 27005  
info@finomix.gr ■ www.finomix.gr



building trusting relationships

