

**technos**

**01/25 124**



**TECHNOS**

Ultra-white powder adhesive for laying ceramic tiles.

**bonding agents  
and adhesives**



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31±1%



5-35°C



20 min



6-10 mm



6 h



6 mm

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## MAIN FEATURES

- Monocomponent
- No creep
- Optimum workability

## APPEARANCE

- Ultra-white powder

## STORAGE

- 12 months in dry place

## FIELDS OF USE

- Fixing, on indoor walls and floors, small-size absorbent tiles such as: cotto, twice-fired, single-fired ceramic.

## SUBSTRATES

Cement-based plaster, cement-lime mortar, gypsum-based plaster<sup>1</sup>, anhydrite screeds<sup>1</sup>, cement-based screeds.

<sup>1</sup> after application of PRIMER-T PLUS

## NATURE OF THE PRODUCT

TECHNOS mainly consists of high-strength cements, selected silicon/quartz mineral charges and specific additives.

For further details, ask the technical office for the safety brief or download it from the web site [www.technokolla.com](http://www.technokolla.com).

## OPERATIONS PRIOR TO APPLICATION

Substrates must fulfill the requirements of the local standards, be properly cured, structurally sound, dimensionally stable, free of any loose or friable particles, clean, dry and free of any contaminants such as dust, dirt, oil, grease, release agent, cement laitance or efflorescence.

Cement substrates should not be subject to shrinkage after the installation of the product, therefore they must be properly cured. Comply with local standards.

Depending on the substrate condition and contaminants to be removed from the surface, perform adequate preparation techniques, such as water-jet washing or blastcleaning, in order to remove all traces of any materials that could reduce the product's adhesion to the substrate.

Cracks in substrates must be identified and sealed appropriately.

## bonding agents and adhesives



## RECOMMENDED ACCESSORIES



Blender



White rubber mallet



28x12 cm trowel stainless steel  
8 mm square serrations



28x12 cm trowel stainless steel  
10 mm square serrations

For applications in hot climates / environments and / or on absorbent substrates, thoroughly pre-dampen the surface immediately prior to the product application, but avoid any ponding / standing water on the surface, which must not be damp to touch and not with a dark-matt / wet surface appearance i.e. it must be saturated surface dry (SSD).

Small localized hollows or gravel pockets in concrete can be leveled (thickness not more than 3 mm) with TECHNOS 24 h prior to fixing. If thicker layers are required, use GAP 24-48 h before fixing tiles.

### HOW TO PREPARE THE MIXTURE

Blend TECHNOS with approximately 7.9 l of clean water per bag (31±1%) until mixture is homogeneous and lump-free. It is advisable to use blender at low speed (approx. 500 rpm) as high speed will reduce the mechanical characteristics of the product.

Wait 3 minutes, then stir the product briefly again before applying. The creamy paste obtained can be easily applied by trowel and possesses optimum thixotropy.

### APPLICATION

Apply using a notched trowel.

Apply sufficient product to ensure complete 'wetting' of the back of the tiles.

Tiling must be carried out on freshly applied adhesive, applying adequate pressure to ensure complete and uniform contact with the adhesive and thus optimum bond. If a film is seen to form on the surface, the adhesive has been left for too long, then immediately remove the adhesive layer with the trowels, discard this material and apply a fresh layer of adhesive. Do not wet the adhesive once applied, as the water compromises the adhesion.

Avoid application in direct sunlight and/or strong wind / draughts.

### WARNINGS AND RECOMMENDATIONS

#### Do not use:

- on concrete, plasterboard, old ceramic floors, wood, vinyl flooring, metal.
- for large tiles
- outdoors
- at temperatures less than 5°C or more than 35°C
- in coats more than 6 mm thick
- on RASOGUM + or products of RASOLASTIK range

### CONSUMPTION

Trowel	6x6 mm	8x8 mm	10x10 mm
Technos	~ 3 kg/m <sup>2</sup>	~ 4 kg/m <sup>2</sup>	~ 5 kg/m <sup>2</sup>

Consumption data refer to sole use of a trowel on flat substrates.

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TECHNICAL DATA	VALUE	REQUIREMENT	STANDARD
Curing time	10 min		
Pot life	*6 h		
Open time	*20 min	°20 min	EN 1346
Adjustability time	* ~ 45 min		
Treadable	*After 24-36 h		
Floor tiles can be grouted	*After 24-36 h		
Wall tiles can be grouted	*After 4-6 h		
Surface can be used	*After 14 days		
Creep on vertical wall	≤ 0.5 mm	°≤ 0.5 mm	EN 1308
Initial tensile strength	~ 1.2 N/mm <sup>2</sup>	°≥ 0.5 N/mm <sup>2</sup>	EN 1348
Tensile strength after immersion in water	~ 0.5 N/mm <sup>2</sup>	°≥ 0.5 N/mm <sup>2</sup>	EN 1348

° according to standard "EN 12004"

\* time intervals refer to a temperature of 23°C-50% R.H.. They become shorter with higher temperatures and longer at lower temperatures.

## SPECIFICATION

Ceramic floor and wall tiles must be fixed with class "C1T cement-based powder adhesive according to standard EN 12004", such as TECHNOKOLLA's TECHNOS, which can be applied in layers up to 6 mm thick on cement-based substrates.

**Technokolla** reminds you to examine the "notes" document that completes the information in this data sheet. The document can be downloaded in the pdf format from the website [www.technokolla.com](http://www.technokolla.com).

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