

# technorap

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## TECHNORAP

Quick setting powder adhesive with a high polymeric content for fixing ceramic tiles.

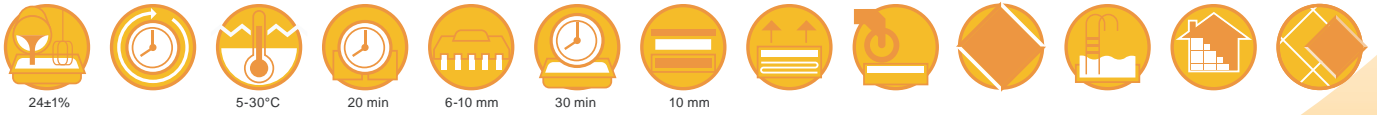
Suitable for refined porcelain stoneware, over-fixing and on heating screeds.

Suitable for overlaying and on heating screeds.

## bonding agents and adhesives

**TECHNOKOLLA**





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## MAIN FEATURES

- Rapid
- One-pack adhesive
- Thicknesses up to 10 mm
- Frost proof
- No vertical creep

## ASPECT

Grey powder

## STORAGE

6 months in a dry place

## FIELDS OF USE

- For quick-fixing ceramic floor and wall tiles outdoors and indoors, also of large format.
- Laying on old ceramic tiles without the use of any primer.
- Suitable for use when high performances are required within a short time, such as: tile fixing in industrial environments, in swimming pools, on façades.
- Fixing natural stone and marble, so long as they are not affected by water.
- Fixing on watery heating floors
- Spot-gluing and levelling insulating panels made of polystyrene, polyurethane foam, rock or glass wool and cork, with fiberglass netting buried in the layer.

## SURFACES

Cement plasters, cement lime mortars, gypsum-based plasters<sup>1</sup>, anhydrite screeds<sup>1</sup>, concrete, aerated concrete, old ceramic floors, old PVC floors<sup>2</sup>, old vinyl floors<sup>2</sup>, plasterboard, Rasolastik range, Rasogum.

<sup>1</sup> after application of PRIMER-T  
<sup>2</sup> after application of PRIMER-101

## NATURE OF THE PRODUCT

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

Ask our technical department for the safety brief for further information or download it from our web-site [www.technokolla.com](http://www.technokolla.com).

## OPERATIONS PRIOR TO FIXING

Small localized hollows or gravel pockets in the case of concrete can be levelled (no more than 5 mm thick) with TECHNORAP 4-6 h prior to fixing. If thicker layers are required, use RASO or GAP-R respectively 24 h and 6 h before fixing the tiles.



## RECOMMENDED ACCESSORIES



**TKW 407**  
Blender 1200



**TKW 411**  
**TKW 412**



**TKW 462**  
Rubber mallet



**TKW 111**  
Trowel 8x8 mm



**TKW 121**  
Trowel 10x10 mm

### HOW TO PREPARE THE MIXTURE

TECHNORAP should be mixed with about 6 l of clean water per bag (24.5±1%) until a homogeneous, lump-free mixture is obtained. It is advisable to use a drill at low speed (approx. 500 rpm) as a high speed will reduce the mechanical characteristics of the product. Wait 3-5 minutes, then stir the product briefly again and start fixing the tiles. The product obtained is a creamy paste that can be easily applied with a trowel and that possesses at optimum thixotropy.

### WARNINGS AND RECOMMENDATIONS

It is always advisable to lay in double spread with formats  $\geq 900 \text{ cm}^2$

#### DO NOT APPLY ON:

- wood, metal
- old ceramic tiles outdoor
- at temperatures lower than 5°C and higher than 30°C
- in layers more than 8 mm

**Use TECHNORAP with TC-LASTIC (about 6.5 l per 25 kg bag) in the following cases, class C2 FT S2:**

- with refined porcelain stoneware outdoors
- on façades with tiles measuring  $> 2100 \text{ cm}^2$
- on electrically heated floors

### AMOUNT REQUIRED

	6x6 mm	8x8 mm	10x10 mm
Trowel			
Technorap	3 Kg/m <sup>2</sup>	4 Kg/m <sup>2</sup>	5 Kg/m <sup>2</sup>

The amounts refer to sole use of the trowel and to flat substrates.

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TECHNICAL SPECIFICATIONS	VALUE	REQUISITE	STANDARD
Curing time	3 min		
Pot life	*30 min		
Open time	*20 min	°10 min	EN 1346
Adjustability time	*Approx. 20 min		
Can be subjected to traffic	*After 4-6 h		
Floor tiles can be grouted	*After 4-6 h		
Wall tiles can be grouted	*After 2 h		
Surface can be used	*After 48 h (72 h tanks and swimming pools)		
Creep on a vertical wall	0 mm	°≤ 0,5 mm	EN 1308
Bond after 6 h	0,8 N/mm <sup>2</sup>	°> 0,5 N/mm <sup>2</sup>	EN 1348
Initial tensile bond	1,7 N/mm <sup>2</sup>	°≥ 1 N/mm <sup>2</sup>	EN 1348
Tensile bond after the action of heat	1,8 N/mm <sup>2</sup>	°≥ 1 N/mm <sup>2</sup>	EN 1348
Tensile bond after immersion in water	1,2 N/mm <sup>2</sup>	°≥ 1 N/mm <sup>2</sup>	EN 1348
Bond after freezing/thawing cycles	1,3 N/mm <sup>2</sup>	°≥ 1 N/mm <sup>2</sup>	EN 1348
Compressive strength	12 N/mm <sup>2</sup>		EN 196

° according to standard EN 12004

\* these times 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 a class “C2FT cementitious powder adhesive according to standard EN 12004”, such as the TECHNORAP type by TECHNOKOLLA, which can be applied in layers up to 8 mm thick on cementitious 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.

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