

# techno-power

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## TECHNO-POWER

Mixed binder powder adhesive for laying porcelain stoneware and ceramic tiles.

## bonding agents and adhesives

**TECHNOKOLLA**





28±1% grey  
31±1% white



5-35°C



30 min



6-10 mm



6 h



10 mm



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## MAIN FEATURES

- Monocomponent
- Frost proof
- No creep
- Extended open time
- Layers up to 10 mm thick

## APPEARANCE

White or grey powder

## STORAGE

12 months in dry place

## FIELDS OF USE

- Fixing ceramic tiles of all types, small and medium size, on indoor and outdoor walls and floors.
- Over-tiling on top of old ceramic tiles.
- Fixing on water heating screeds.
- Fixing natural stone and marble, so long as they are not affected by water.
- Spot-glueing insulating panels made of polystyrene, polyurethane foam, rock or glass wool.

## SUBSTRATES

Cement-based plaster, cement-lime mortar, gypsum-based plaster<sup>1</sup>, anhydrite screeds<sup>1</sup>, cement-based screeds, concrete, aerated concrete, old ceramic floors<sup>2</sup>, resilient floors perfectly adherent (excluding polyolefin coatings)<sup>2</sup>, plasterboard, RASOLASTIK range and RASOGUM +.

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

<sup>2</sup> after application of PRIMER-101 PLUS

## NATURE OF THE PRODUCT

TECHNO-POWER 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

Small localized hollows or gravel pockets in concrete can be leveled (thickness not more than 5 mm) with TECHNO-POWER 24 h prior to fixing. If thicker layers are required, use RASO or GAP-R respectively 24 h and 6 h before fixing the tiles.

## bonding agents and adhesives

## RECOMMENDED ACCESSORIES



Blender 1200



White rubber mallet



8x8 mm trowel



10x10 mm trowel

### HOW TO PREPARE THE MIXTURE

Blend grey TECHNO-POWER with approximately 7 l of clean water (28±1%). Blend white TECHNO-POWER with approximately 7.8 l of clean water (31±1%).

Blend 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 approx. 3 minutes, then stir the product briefly again before applying.

The creamy paste obtained can be easily applied by trowel and possesses optimum thixotropy.

### WARNINGS AND RECOMMENDATIONS

It is always advisable to apply two coats when laying tile sizes measuring 900 cm<sup>2</sup> or larger.

#### Do not apply to:

- wood, metal
- RASOLASTIK outdoors
- old ceramic floors outdoors.

#### Do not use:

- at temperatures less than 5°C or more than 35°C
- in coats more than 10 mm thick

### CONSUMPTION

Trowel	6x6 mm	8x8 mm	10x10 mm
Techno-power	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	3 min		
Pot life	*6 h		
Open time	*30 min	°30 min	EN 1346
Adjustability time	*Approx. 50 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
	<b>GREY</b>	<b>WHITE</b>	
Initial tensile strength	~ 1.5 N/mm <sup>2</sup>	~ 1.3 N/mm <sup>2</sup>	°≥ 1 N/mm <sup>2</sup> EN 1348
Tensile strength after the action of heat	~ 1.4 N/mm <sup>2</sup>	~ 1.1 N/mm <sup>2</sup>	°≥ 1 N/mm <sup>2</sup> EN 1348
Tensile strength after immersion in water	~ 1.2 N/mm <sup>2</sup>	~ 1.3 N/mm <sup>2</sup>	°≥ 1 N/mm <sup>2</sup> EN 1348
Bond after freezing/thawing cycles	~ 1.5 N/mm <sup>2</sup>	~ 1.5 N/mm <sup>2</sup>	°≥ 1 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 "C2TE cement-based powder adhesive according to standard EN 12004", such as TECHNOKOLLA's TECHNO-POWER, which can be applied in layers up to 10 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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