

# techno-one+

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## TECHNO-ONE+

Highly deformable, high-efficiency powder adhesive for laying ceramic tiles.

Suitable for porcelain stoneware and over-tiling. Ultra-high workability.

## bonding agents and adhesives





36±1%



5-35°C



30 min



6-10 mm



6 h



5 mm



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## MAIN FEATURES

- High efficiency
- Monocomponent
- Very creamy
- Frost proof
- No creep
- Extended open time

## APPEARANCE

Grey powder

## STORAGE

12 months in dry place

## FIELDS OF USE

- Fixing ceramic tiles of all types, even large sizes, on walls and floors, indoors and outdoors.
- Suitable for use when high performance is required, such as: tile laying in industrial environments, swimming pools or facades.
- Fixing on electric or water heating screeds.
- Over-tiling on top of old ceramic tiles without the use of primer.
- Suitable for fixing thin porcelain stoneware slabs.
- 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, old linoleum floors<sup>2</sup>, PVC<sup>2</sup> or vinyl<sup>2</sup>, plasterboard, RASOLASTIK range and RASOGUM.

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

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

## NATURE OF THE PRODUCT

TECHNO-ONE+ mainly consists of high-strength cements, selected silicon/quartz mineral charges and specific additives. Ask the technical office for the safety brief containing further details.

## OPERATIONS PRIOR TO APPLICATION

Small localized hollows or gravel pockets in the case of concrete can be leveled (not more than 3 mm thick) with TECHNO-ONE+ 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



**437145**  
Blender 1200



**437181**  
**437183**



**437204**  
White rubber mallet



**437189**  
28x12 cm trowel stainless steel  
8 mm square serrations



**437200**  
28x12 cm trowel stainless steel  
10 mm square serrations

### HOW TO PREPARE THE MIXTURE

Blend TECHNO-ONE+ with approximately 9 l of clean water (36±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 5-10 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:

- metal
- old tiles outdoors

#### Do not use:

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

### CONSUMPTION

Trowel	6x6 mm	8x8 mm	10x10 mm
Techno-one+	2.4 kg/m <sup>2</sup>	3.4 kg/m <sup>2</sup>	4.2 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	*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 (21 days for tanks and swimming pools)		
Creep on vertical wall	≤ 0.5 mm	°≤ 0.5 mm	EN 1308
	<b>GREY</b>	<b>WHITE</b>	
Initial tensile strength	1.7 N/mm <sup>2</sup>	1.6 N/mm <sup>2</sup>	°≥ 1 N/mm <sup>2</sup> EN 1348
Tensile strength after the action of heat	1.7 N/mm <sup>2</sup>	1.4 N/mm <sup>2</sup>	°≥ 1 N/mm <sup>2</sup> EN 1348
Tensile strength after immersion in water	1.1 N/mm <sup>2</sup>	1.0 N/mm <sup>2</sup>	°≥ 1 N/mm <sup>2</sup> EN 1348
Bond after freezing/thawing cycles	1.1 N/mm <sup>2</sup>	1.0 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 S1 cement-based powder adhesive according to standard EN 12004", such as TECHNOKOLLA's TECHNO-ONE+, which can be applied in layers up to 5 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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