

technos+
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TECHNOS+

White and grey powder adhesive for fixing ceramic tiles of all types.

**bonding agents
and adhesives**





26.5±1% grey
27.5±1% white



5-35°C



20 min



6-10 mm



6 h



6 mm

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EN 12004



EN 12004



EN 12004
with TC-LAX



EN 12004
with TC-LASTIC



MAIN FEATURES

Monocomponent
Frost proof
Optimum workability

APPEARANCE

White or grey powder

STORAGE

12 months in dry place

FIELDS OF USE

- Fixing ceramic tiles of all types on walls and floors, outdoors and indoors.
- Spot-glueing insulating panels made of polystyrene, polyurethane foam, rock or glass wool.
- For further applications, consult "Warnings and recommendations" use with latex.

SUBSTRATES

Cement-based plaster, cement-lime mortar, gypsum-based plaster¹, anhydrite screeds¹, cement-based screeds.

¹ after application of PRIMER-T PLUS

NATURE OF THE PRODUCT

TECHNOS+ mainly consists of high-strength cements, selected 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.

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 e.g. with REPAIR epoxy resin. 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

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

leveled (thickness no more than 5 mm) with TECHNOS+ 24 h prior to fixing. If thicker layers are required, use RASO, GAP or GAP-R before fixing tiles.

HOW TO PREPARE THE MIXTURE

Blend grey TECHNOS+ with approximately 6.6 l. of clean water (26.5±1%). Blend white TECHNOS+ with approximately 6.9 l. of clean water (27.5±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.

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

It is always advisable to apply two coats when laying 900 cm² tile sizes or larger.

Do not use:

- on aerated or precast concrete, plasterboard, old ceramic floors, wood, vinyl flooring, metal,
- on RASOGUM + or products of RASOLASTIK range
- for fixing on facades
- at temperatures less than 5°C or more than 35°C
- in layers more than 6 mm thick
- on porcelain stoneware in large sizes

Use TECHNOS+ with TC-LAX (about 6.75 l per 25 kg bag) class C2 S1 in the following cases:

- fixing tiles on old floors, also outdoors
- fixing porcelain stoneware in large sizes
- aerated concrete
- fixing on facades
- fixing natural stone and marble, so long as they are not affected by water or liable to stain
- fixing in industrial environments.
- on electrically or water-heated screeds
- tile laying in swimming pools

Use TECHNOS+ with TC-LASTIC (about 7 l per 25 kg bag) class C2 S2 in the following cases:

- fixing porcelain stoneware in large sizes, indoors and outdoors
- fixing on facades
- fixing natural stone and marble, so long as they are not affected by water or liable to stain
- fixing on RASOGUM + or products of RASOLASTIK range
- on electrically or water-heated screeds
- tile laying in swimming pools

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CONSUMPTION			
Trowel	6x6 mm	8x8 mm	10x10 mm
Technos+	~ 3 kg/m ²	~ 4 kg/m ²	~ 5 kg/m ²

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

TECHNICAL DATA	VALUE	REQUIREMENT	STANDARD
Curing time	10 min		
Pot life	*6 h		
Open time	*20 min	°20 min	EN 1346
Adjustability time	* ~ 40 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		
	GREY	WHITE	
Initial tensile strength	~ 1.2 N/mm ²	~ 0.9 N/mm ²	° ≥ 0.5 N/mm ² EN 1348
Tensile strength after the action of heat	~ 0.6 N/mm ²	~ 0.6 N/mm ²	° ≥ 0.5 N/mm ² EN 1348
Tensile strength after immersion in water	~ 0.9 N/mm ²	~ 0.7 N/mm ²	° ≥ 0.5 N/mm ² EN 1348
Bond after freezing/thawing cycles	~ 1.2 N/mm ²	~ 0.7 N/mm ²	° ≥ 0.5 N/mm ² EN 1348

° according to standard "EN 12004"

* these 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 "C1 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.

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