

technostar

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#### TECHNOSTAR

Highly-deformable, one-pack powder adhesive.

Particularly suitable for refined porcelain stoneware and large-sized natural stones.

Use on heating floor surfaces, façades, industrial floors and swimming pools.

Thickness up to 15 mm.

bonding agents  
and adhesives

**TECHNOKOLLA**





29±1% grey  
30±1% white



5-35°C



30 min



6-10 mm



6 h



15 mm



≤ 3600 cm<sup>2</sup>



≤ 1100 cm<sup>2</sup>



≤ 7200 cm<sup>2</sup>



≤ 1100 cm<sup>2</sup>



≤ 1600 cm<sup>2</sup>



≤ 3600 cm<sup>2</sup> int.  
≤ 2000 cm<sup>2</sup> ext.

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## MAIN FEATURES

One-pack adhesive  
Optimum workability  
Thick-laying  
Frost proof  
No vertical slipping  
Highly deformable

## ASPECT

White or grey powder

## STORAGE

12 months in a dry place

## FIELDS OF USE

- Fixing poorly absorbent or non-absorbent materials such as: single-fired tiles, split tiles and refined porcelain stoneware, outdoor use, indoor use on walls and floors; for fixing absorbent tiles made of: cotto, twice-fired, single-fired ceramic.
- Suitable for use when high performances are required, such as: tile fixing in industrial environments, or fixing on top of old ceramic tiles, in swimming pools or on façades.
- Fixing on heating floors.
- Spot-gluing and levelling insulating panels made of polystyrene, polyurethane foam, rock or glass wool, with fiberglass netting buried in the layer.
- Fixing natural stone and marble, so long as they are not affected by water.

## SURFACES

Cement plaster, cement-lime mortar, cementitious slabs, concrete, old ceramic floors, plasterboard, RASOLASTIK, RASOLASTIK RDY, RASOGUM.

## NATURE OF THE PRODUCT

TECHNOSTAR 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.

## 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 TECHNOSTAR 24 h prior to fixing. If thicker layers are required, use RASO, GAP or RASORAP before fixing the tiles.

bonding agents and adhesives

## CERTIFICATIONS

**=CSTB**

## CONFORMITY



## RECOMMENDED ACCESSORIES



**TKW 407**  
Blender 1200



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



**TKW 462**  
Rubber mallet



**TKW 121**  
Trowel 10x10 mm



**TKW 181**  
Round trowel Ø15 mm

### HOW TO PREPARE THE MIXTURE

Grey TECHNOSTAR must be mixed with about 7.0 l of clean water ( $29 \pm 1\%$ ). White TECHNOSTAR should be mixed with about 7.5 l of clean water ( $30 \pm 1\%$ ). Blend 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 5-10 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

#### Do not apply straight on to:

- plaster, anhydrite slabs (apply PRIMER-T at least 6 h prior to fixing)

#### Do not apply:

- to wood, vinyl floors, metal, old tiles outdoors
- on old ceramic tiles' floors with tiles measuring more than 900 cm<sup>2</sup> outdoors
- at temperatures less than 5°C or more than 35°C
- in layers more than 15 mm thick
- on heating floors with tiles measuring less than 3600 cm<sup>2</sup>
- in industrial environments with tiles measuring more than 1100 cm<sup>2</sup>
- refined porcelain stoneware tiles measuring more than 3600 cm<sup>2</sup> outdoors
- in swimming pools with tiles measuring more than 1100 cm<sup>2</sup>
- on façades with tiles measuring more than 2100 cm<sup>2</sup>
- to RASOLASTIK o RASOGUM with tiles measuring > 2100 cm<sup>2</sup> (using TECHNOLA with TCLASTIC or TECHNORAP-2)

### AMOUNT REQUIRED

	8x8 mm	10x10 mm	Ø15 mm
Trowel			
Technostar	4 Kg/m <sup>2</sup>	5 Kg/m <sup>2</sup>	7 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	10 min		
Pot life	*6 h		
Open time	*30 min	°30 min	EN 1346
Adjustability time	*Approx. 50 min		
Can be subjected to traffic	*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 tanks and swimming pools)		
Creep on a vertical wall	0 mm	°≤ 0,5 mm	EN 1308
Initial tensile bond	2,0 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	1,3 N/mm <sup>2</sup>	°≥ 1 N/mm <sup>2</sup>	EN 1348
Bond after freezing/thawing cycles	1,4 N/mm <sup>2</sup>	°≥ 1 N/mm <sup>2</sup>	EN 1348
Transversal warping	3 mm	≥ 2,5 mm	EN 12002
Compressive strength	14 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 “C2TE cementitious powder adhesive according to standard EN 12004 and S1 according to EN12002”, such as the TECHNOSTAR type by TECHNOKOLLA, which can be applied in layers up to 15 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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