

# technostuk G.G.

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## TECHNOSTUK G.G.

Cement-based grouting for joints 4 to 20 mm in width. Microshield system provides active protection that helps to prevent the growth of bacteria, fungi and mould, which can cause stains and deterioration of the grouting. Highly sanitizing.

## groutings and sealants





20±1%



3



5-35°C



2 h



4-20 mm



with Tc-Stuk



with Tc-Stuk

# technostuk G.G.



## MAIN FEATURES

- |                         |                    |
|-------------------------|--------------------|
| Water repellent         | Mould-inhibiting   |
| Optimum cleanability    | Fungicide          |
| High degree of hardness | Sanitizing         |
| UV resistant            | Bacteriostatic     |
| Frost proof             | Abrasion resistant |

## APPEARANCE

Powder in 3 colours (see colour card at [www.technokolla.com](http://www.technokolla.com))

## STORAGE

12 months in dry place

## FIELDS OF USE

- Grouting joints between all types of ceramic tiles, both indoors and outdoors.
- Thanks to its special pigmentation and formula, TECHNOSTUK G.G. spreads in an optimum way and cleans off easily when dry, even from porous materials like cotto.

## TECHNICAL SPECIFICATIONS OF THE PRODUCT

TECHNOSTUK G.G. mainly consists of high-strength cements, selected sands, synthetic resins and specific additives. MICROSHIELD SYSTEM provides active protection that helps to prevent the growth of bacteria, fungi and mould, which can cause stains and deterioration of the grouting.

Moreover, the new COLOR SAVE SYSTEM prevents the grouting from fading over time, ensuring a colorfast and extremely bright finish.

Lastly, thanks to WATER REPELLENT SYSTEM Technokolla's grouting range becomes water repellent and can therefore be used for swimming pools, tanks, etc., without being damaged by the water they contain.

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).



## RECOMMENDED ACCESSORIES



Rubber trowel

### LABORATORY TESTS

The laboratory tests performed by Centro Ceramico of Bologna on Technokolla's cement-based grouting compounds with MICROSIELD SYSTEM active protection additive have established that: the bacterial survival rate is 0, while colonization by mould and fungi is inhibited.

#### Resistance to fungal growth test in accordance with standard: BS 5980

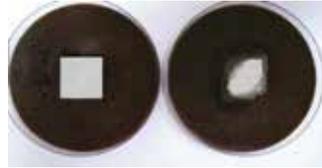


PHOTO 1

PHOTO 2

**Photo 1** shows the sample of conventional grouting that has just been inoculated by colonies of mould spores.

**Photo 2** shows the same sample after 14 days of incubation, with mould growth index 4 (31-70%).

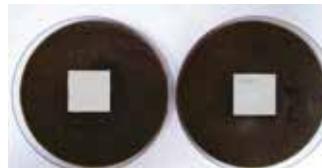


PHOTO 3

PHOTO 4

In **Photo 3**, the sample of Technokolla's grouting with the addition of Microshield system active protection additive has just been inoculated by colonies of mould spores.

**Photo 4** shows the same sample after 14 days of incubation where no mould appears to have grown, thus corresponding to mould growth index 0 (no visible growth).

### HOW TO PREPARE THE MIXTURE

Blend TECHNOSTUK G.G. with about 5 l. of clean water per 25 kg bag (20±1%) until mixture is creamy. It is of vital importance for the paste be lump-free and perfectly uniform in colour. Use perfectly clean tools and a low speed blender (approx. 500 rpm) when preparing the mixture.

Small quantities of TECHNOSTUK G.G. can also be mixed by hand but bear in mind that varying amounts of water between one batch and the next can result in joints that are slightly different in colour. Use TC-STUK instead of the water to blend the mixture if the flooring is subjected to intensive traffic, on elastic surfaces or when applying to façades.

### GROUTING OPERATION

Apply TECHNOSTUK G.G. with the special rubber trowel, and make sure that the joints are filled completely. Wipe off any excess material with the edge of the applicator. Once the grouting begins to harden, the surface can be wiped clean with a clean, damp sponge. Any traces left on the tiles can be removed easily the next day using a soft, dry cloth. If TC-STUK is used instead of the water, this operation must be done immediately after the surfaces have been cleaned with a sponge. Warning: only use water for blending TECHNOSTUK G.G. when grouting porous materials, such as Tuscan cotto tiles! A whitish layer, that mainly consists of calcium carbonate and is commonly called bloom, sometimes forms on the surface of grouting made with cement-based materials. Bloom is caused by many factors that may interact with each other as the grouting dries. The water used for the mixture is one of these, and becomes a harmful factor if too much is used or when various mixtures are prepared with different amounts of water. The drying time also affects the colour shade considerably, as it is influenced by the temperature and humidity of the air, and the residual humidity in the materials used for fixing, such as adhesives, or substrates that are not yet fully dried. Our advice is: dose the water used for the mixture in compliance with the instructions on the pack; avoid making lots of different mixtures; never stop grouting a room halfway and then continue the day after; always wait until the substrate and adhesive have completely dried before grouting.

## AVAILABLE COLOURS

01 MANHATTAN

03 ASH

28 BEIGE MIX

TILE in cm	GROUTING consumption g/m <sup>2</sup>						
	JOINT in mm						
	4	5	6	8	10	15	20
10x10x0.6	820	1020	1200	1650	2000		
15x15x0.9	820	1000	1200	1650	2000	3100	4100
20x20x0.9	610	770	910	1200	1550	2300	3100
12x24x0.9	770	950	1150	1500	1900	2900	3900
12x24x1.4	1200	1500	1800	2400	3000	4500	6000
20x20x1.4	950	1200	1400	1900	2400	3600	4800
20x30x0.9	510	650	770	1000	1280	1900	2550
30x30x1	450	570	680	900	1150	1700	2300
30x30x1.4	630	800	950	1300	1600	2400	3200
30x60x1	340	430	510	680	850	1300	1700
40x40x1	340	430	510	680	850	1300	1700
50x50x1	270	340	410	550	680	1020	1350
60x120x1.1	190	250	280	370	470	700	950

## CONSUMPTION CALCULATION FORMULA

$$A \times B \times \left[ \frac{C+D}{C \times D} \right] \times 170 = \frac{g}{m^2}$$

in mm                      in cm



## WARNINGS AND RECOMMENDATIONS

- do not exceed the recommended amount of water in the mixture. The mixture must never be fluid
- first perform a cleanability test when using dark colours on light polished porcelain stoneware or on natural stone
- if the tiles are very absorbent, it is advisable to wet the surface before grouting
- never interrupt the grouting operations for more than two hours in the same room or area
- do not add anything to the product that is not specified in this data sheet
- it is advisable to blend the mixture with TC-STUK instead of water for grouting swimming pools or heated floors

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TECHNICAL DATA	VALUE	REQUIREMENT	STANDARD
Appearance	granular powder		
Temperature during application	min. +5°C, max +35°C		
Water used for mixing	~ 5 l. - 25 kg bag (20±1%)		
Curing time	3 min		
Pot life	*2 h		
Thermal resistance	from -30 °C to +80°C		
Abrasion resistance	≤ 1000 mm <sup>3</sup>	≤ 1000 mm <sup>3</sup>	EN 12808-2
Flexural strength after dry storage	~ 7.5 N/mm <sup>2</sup>	≥ 2.5 N/mm <sup>2</sup>	EN 12808-3
Bending strength after freezing/thawing cycles	~ 3.0 N/mm <sup>2</sup>	≥ 2.5 N/mm <sup>2</sup>	EN 12808-3
Compressive strength after dry storage	~ 35.0 N/mm <sup>2</sup>	≥ 15 N/mm <sup>2</sup>	EN 12808-3
Compressive strength after freezing/thawing cycles	~ 30.0 N/mm <sup>2</sup>	≥ 15 N/mm <sup>2</sup>	EN 12808-3
Shrinkage	~ 1.7 mm/m	≤ 3 mm/m	EN 12808-4
Water absorption after 30 min.	~ 0.5 g	≤ 2 g	EN 12808-5
Water absorption after 240 min.	~ 1.0 g	≤ 5 g	EN 12808-5
Resistance to the growth of bacteria S% (survival):	0%		protocol CCB (RP 335/10/S CCB)
Degree of mould colonization C% (growth):	no visible growth		BS 5980 (RP 332/10/S CCB)

## TIME TO WAIT BEFORE GROUTING

Floor with adhesive	*24 h
Floor with quick-setting adhesive	*4-6 h
Floor with dry-shake finish (mortar)	*8-10 days
Wall with adhesive	*5-6 h
Wall with quick setting adhesive	*2 h
Ready for use	* after 7 days
Treadable	* after 24 h

\* these times refer to a temperature of 23°C-50% R.H.. They are shorter at higher temperatures and longer at lower temperatures.

## SPECIFICATION

Ceramic floor and wall tiles must be grouted using cement-based powder grouting compound with Microshield system additive, which helps to prevent the growth of bacteria, fungi and mould, such as Technokolla's TECHNOSTUK G.G., used for grouting joints up to 20 mm.

**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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