

# technostuk G.G.

09/10 128



Microshield  
System



Water Repellent  
System



Color Save  
System

## groutings and sealants

### TECHNOSTUK G.G.

Cement-based grouting compound 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 damage the grouting. Highly sanitizing.

**TECHNOKOLLA**





20%



4



5-35°C



2 h



4-20 mm



with Tc-Stuk



with Tc-Stuk

# technostuk G.G.



## MAIN FEATURES

Water repellent

Optimum cleanability

High degree of hardness

UV resistant

Frost proof

Mould-inhibiting

Fungicide

Sanitizing

Bacteriostatic

Abrasion resistant

## APPEARANCE

Powder in 4 colours (see card)

## STORAGE

12 months in a dry place

## FIELDS OF USE

- Grouting the joints between all types of ceramic tiles, both indoors and outdoors.
- Thanks to its special pigmentation and formula, Technostuk G.G. is very easy to spread 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 siliceous sands, synthetic resins and specific additives. The active protection provided by MICROSHIELD SYSTEM prevents the growth of bacteria, fungi and mould, which can cause stains and damage the grouting.

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

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

Ask our technical department for the safety brief containing further information.



## RECOMMENDED ACCESSORIES



**TKW 451**  
Applicator



**TKW 184**  
Washing trough

### LABORATORY TESTS

The laboratory tests performed by Centro Ceramico of Bologna on Technokolla's cement-based grouting compounds with the 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 a conventional grouting product 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 visually detected coverage (31-70%).

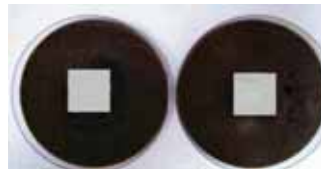


PHOTO 3

PHOTO 4

In **photo 3**, a sample of Technokolla's grouting compound 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

TECHNOSTUK G.G. should be blended with about 5 l. of clean water per 25 kg bag (20%) until a creamy mixture is obtained. 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 a suitable rubber squeegee, 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:** mix TECHNOSTUK G.G. with water alone when grouting porous materials, like 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 to a considerable degree, as it is influenced by the temperature and humidity of the air, by the residue 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 with it the day after; always wait until the substrate and adhesive have completely dried before grouting.

## AVAILABLE COLOURS

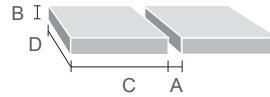
01 MANHATTAN      04 ANTHRACITE  
03 ASH              28 BEIGE MIX

AMOUNT OF grouting compound required g/m <sup>2</sup>							
TILE in cm	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
20x20x0.9	610	770	920	1200	1550	2300	3060
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

### HOW TO CALCULATE THE AMOUNT REQUIRED

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

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 if a dark colour is used on light polished vitrified 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 brief
- it is advisable to use TC-STUK in the mixture instead of water for grouting in swimming pools or on heated floors.

# technostuk G.G.

TECHNICAL DATA	VALUE	REQUIREMENT	STANDARD
Appearance	granular powder		
Temperature during application	min. +5°C, max +35°C		
Water used for mixing	5 l. – 5 kg bag (20%)		
Curing time	3 min		
Pot life	* 2 h		
Thermal resistance	from -30 °C to +80°C		
Abrasion resistance	850 mm <sup>3</sup>	≤ 1000 mm <sup>3</sup>	EN 12808-2
Bending strength after dry storage	8.5 N/mm <sup>2</sup>	≥ 3.5 N/mm <sup>2</sup>	EN 12808-3
Bending strength after freezing/thawing cycles	8.2 N/mm <sup>2</sup>	≥ 3.5 N/mm <sup>2</sup>	EN 12808-3
Compressive strength after dry storage	45.0 N/mm <sup>2</sup>	≥ 15 N/mm <sup>2</sup>	EN 12808-3
Compressive strength after freezing/thawing cycles	44.0 N/mm <sup>2</sup>	≥ 15 N/mm <sup>2</sup>	EN 12808-3
Shrinkage	1.6 mm/m	≤ 2 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 332/10/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 fixed with mortar	*8-10 days
Wall with adhesive	*5-6 h
Wall with quick setting adhesive	* 2 h
Ready for use	*7 days
Treadable	*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 a cement-based powder grouting compound with the addition of Microshield system, which helps to prevent the growth of bacteria, fungi and mould, such as Technokolla's TECHNOSTUK G.G., used for filling joints up to 20 mm in width.

**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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**Technokolla S.p.A.**

Via Radici in Piano, 558  
41049 Sassuolo (MO) • Italy

Tel. +39 0536 862269  
Fax +39 0536 862660

[www.technokolla.com](http://www.technokolla.com)  
[info@technokolla.com](mailto:info@technokolla.com)