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TECHNOCOLORS

Cement-based grouting compound for 1 to 8 mm joints, with a fine finish and bright colour.

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

groutings and sealants

TECHNOKOLLA





26%



25



5-35°C



2 h



1-8 mm



with Tc-Stuk

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MAIN FEATURES

Bright shades that remain colorfast over time	Mould-inhibiting
Water repellent	Fungicide
High degree of hardness	Sanitizing
UV resistant	Bacteriostatic
Frost proof	Abrasion resistant

APPEARANCE

Fine powder in 25 colours (see card)

STORAGE

18 months in a dry place

FIELDS OF USE

- Grouting the joints between all types of ceramic tiles, both indoors and outdoors.
- Grouting marble.
- Tile laying with joints 1 to 8 mm in width.
- Grouting in swimming pools.
- Grouting vitreous mosaic.
- Fixing on heating floors

TECHNICAL SPECIFICATIONS OF THE PRODUCT

TECHNCOLORS mainly consists of high-strength cements, selected quartz mineral charges, 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 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.

For further details, ask our technical office for the safety brief or download it from our web site www.technokolla.com.



RECOMMENDED ACCESSORIES



TKW 452
Applicator



TKW 481
Sponge



TKW 182
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

TECHNOCOLORS should be blended with 1.3 l. of clean water per 5 kg bag (26%) until a creamy mixture is obtained. It is of vital importance for the paste be lump-free and perfectly uniform in colour. Small quantities of TECHNOCOLORS can also be mixed by hand but bear in mind that varying amounts of water between one batch and the next can result in slightly different colour gaps. 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 and swimming pools.

GROUTING OPERATION

Apply TECHNOCOLORS with a suitable rubber applicator or squeegee, and make sure that the joints are filled completely. Wipe off any excess grouting compound with the edge of the applicator. Once the grouting begins to harden, the surface can be wiped clean with a clean, damp sponge. After this operation, the joints should be homogeneous. 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.

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

00 WHITE	08 BEIGE	15 RUBY	23 YELLOW
01 MANHATTAN	09 SAND	16 CAMEL	24 PERGAMON
02 ICE	10 BROWN	17 CROCUS	29 LIGHT GREY
03 ASH	11 COTTO	19 NAVY BLUE	30 ABSOLUTE BLACK
04 ANTHRACITE	12 DARK BROWN	20 AQUAMARINE	
06 JASMIN	13 MAGNOLIA	21 ANISEED	
07 ANEMONE	14 AMARANTH	22 GREEN	

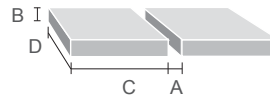
AMOUNT OF GROUTING COMPOUND REQUIRED g/m²

TILE in cm	JOINT in mm			
	2	3	5	8
vitreous mosaic 2x2x0.38	1300			
5x5x0.4 mosaic	450			
10x10x0.6	350	500	840	1350
7.5x15x0.7	400	600	980	1600
15x15x0.9	350	500	840	1350
20x20x0.9	250	380	630	1000
12x24x0.9			790	1300
20x20x0.9	250	380	630	1000
20x30x9	200	300	530	850
30x30x1	190	280	470	750
30x60x1	140	210	350	560
40x40x1	140	210	350	560
50x50x1	110	170	280	450
60x120x1.1	80	110	200	310

HOW TO CALCULATE THE AMOUNT REQUIRED

$$A \times B \times \left[\frac{C + D}{C \times D} \right] \times 140 = \frac{g}{m^2}$$

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 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

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TECHNICAL DATA	VALUE	REQUIREMENT	STANDARD
Appearance	fine powder		
Temperature during application	min. +5°C, max +35°C		
Water used for mixing	1.3 l. - 5 kg bag (26%)		
Curing time	3 min		
Pot life	*2 h		
Thermal resistance	from -30 °C to +80°C		
Abrasion resistance	750 mm ³	≤ 1000 mm ³	EN 12808-2
Bending strength after dry storage	7.1 N/mm ²	≥ 3.5 N/mm ²	EN 12808-3
Bending strength after freezing/thawing cycles	6.9 N/mm ²	≥ 3.5 N/mm ²	EN 12808-3
Compressive strength after dry storage	38.0 N/mm ²	≥ 15 N/mm ²	EN 12808-3
Compressive strength after freezing/thawing cycles	38.5 N/mm ²	≥ 15 N/mm ²	EN 12808-3
Shrinkage	1.8 mm/m	≤ 2 mm/m	EN 12808-4
Water absorption after 30 min.	0.8 g	≤ 2 g	EN 12808-5
Water absorption after 240 min.	1.2 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 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 in higher temperatures and longer in 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 TECHNOCOLORS, used for filling joints up to 8 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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