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Microshield System



Water Repellent System



Color Save System



TECHNOCOLORS

Cement-based grouting for 1 to 8 mm joints, with 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 deterioration of the grouting.

Highly sanitizing.

groutings and sealants





26±1%



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
 Water repellent
 High degree of hardness
 UV resistant
 Frost proof

Mould-inhibiting
 Fungicide
 Sanitizing
 Bacteriostatic
 Abrasion resistant

APPEARANCE

Fine powder in 25 colours (see colour card in www.technokolla.com)

STORAGE

18 months in dry place (aluminium package)

FIELDS OF USE

- Grouting joints between all types of ceramic tiles, both indoors and outdoors.
- Grouting marble.
- Tile laying with 1 to 8 mm joints.
- 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 deterioration of the grouting.

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

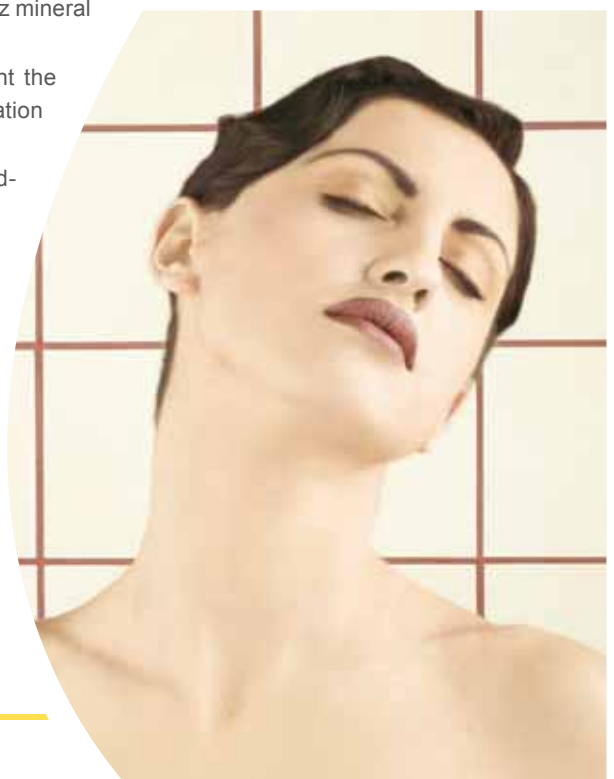
Lastly, thanks to WATER REPELLENT SYSTEM Technokolla's grouting range becomes water repellent and can therefore be used for swimming pools, tanks, etc., without being damaged by the water they contain.

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



LOW-VOC
product

TESTED BY
EUROFINS



RECOMMENDED ACCESSORIES



437210
Applicator



437127
Handle for sponges and felts



437128
Sweepex sponge



437123
Washing trough with 3 rollers

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 TECHNOCOLORS with 1.3 l. of clean water per 5 kg bag (26±1%) until mixture is creamy.

It is of vital importance for the paste to 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 joints. It is recommended use TC-STUK instead of the water to blend the mixture if the flooring is heavily trafficked, on elastic substrates or for applying to façades and swimming pools.

GROUTING OPERATION

Apply TECHNOCOLORS with a rubber trowel and make sure that the joints are filled completely. Wipe off any excess grouting 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 must 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 water, this operation must be done immediately after the surfaces have been cleaned with a sponge.

A whitish layer, mainly consisting of calcium carbonate and 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

00 WHITE	08 BEIGE	15 RUBY	23 YELLOW
01 MANHATTAN	09 SAND	16 CARMEL	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	

GROUTING CONSUMPTION g/m ²				
TILE in cm	JOINT in mm			
	2	3	5	8
2x2x0.38 vitreous mosaic	1300			
5x5x0.4 mosaic	450			
10x10x0.6	350	500	840	1350
7.5x15x0.7	400	600	980	1600
15x15x0.9	350	500	840	1350
12x24x0.9			790	1300
20x20x0.9	250	380	630	1000
20x30x0.9	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

CONSUMPTION CALCULATION FORMULA

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

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 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 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±1%)		
Curing time	3 min		
Pot life	*2 h		
Thermal resistance	from -30 °C to +80°C		
Abrasion resistance	≤ 1000 mm ³	≤ 1000 mm ³	EN 12808-2
Flexural strength after dry storage	6.0 N/mm ²	≥ 2.5 N/mm ²	EN 12808-3
Bending strength after freezing/thawing cycles	6.0 N/mm ²	≥ 2.5 N/mm ²	EN 12808-3
Compressive strength after dry storage	30.0 N/mm ²	≥ 15 N/mm ²	EN 12808-3
Compressive strength after freezing/thawing cycles	28.0 N/mm ²	≥ 15 N/mm ²	EN 12808-3
Shrinkage	1.8 mm/m	≤ 3 mm/m	EN 12808-4
Water absorption after 30 min.	0.3 g	≤ 2 g	EN 12808-5
Water absorption after 240 min.	0.8 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)
VOC emission	EC1 very low emission	< 200 µg/m ³ TVOC	r.p. No. 770016

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 become shorter with higher temperatures and longer at lower temperatures.

SPECIFICATION

Ceramic floor and wall tiles must be grouted using cement-based powder grouting with Microshield system additive, which helps to prevent the growth of bacteria, fungi and mould, such as Technokolla's TECHNOCOLORS, used for filling joints up to 8 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.

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