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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

TECHNOKOLLA®

A SIKA BRAND

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CG2 WA
EN 13888

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 30 colours (see colour card in www.technokolla.com)

STORAGE

24 months in dry place (aluminium package)

LOW-VOC
EC1 Plus
product

TESTED BY
EUROFINS

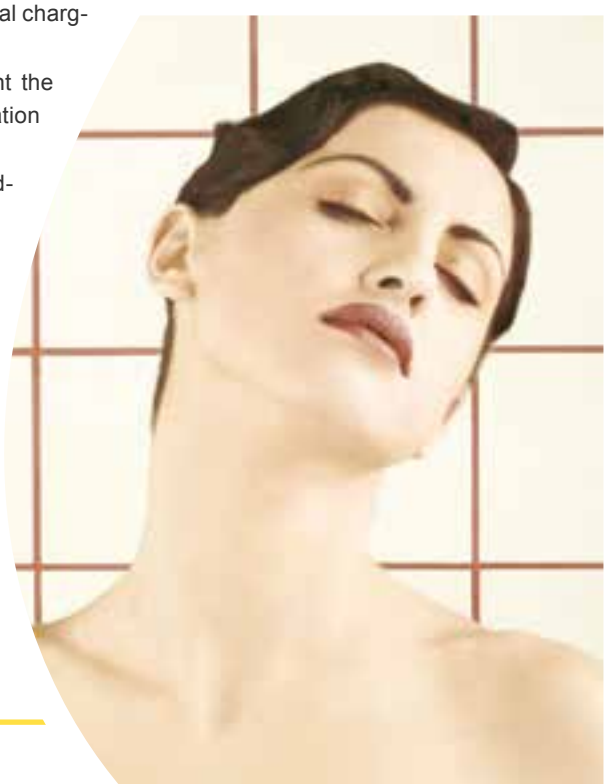
A+

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 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.



RECOMMENDED ACCESSORIES

Applicator

Handle for sponges and felts

Sweepex sponge

Washing trough

LABORATORY TESTS

The laboratory tests performed by Centro Ceramico of Bologna on Technokolla's cement-based grouting compounds with MICROSHIELD 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

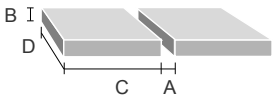
00 WHITE	09 SAND	29 LIGHT GREY	37 LIGHT SAND
01 MANHATTAN	10 BROWN	30 TOTAL BLACK	38 CEDAR
02 ICE	11 TERRACOTTA	31 SILVER	39 BEECH WOOD
03 ASH	12 DARK BROWN	32 GREY	40 WALNUT
04 ANTHRACITE	14 AMARANTH	33 GRAPHITE	41 OAK WOOD
06 JASMINE	15 RUBY	34 PINE	42 MAHOGANY
07 ANEMONE	16 CARAMEL	35 MAPLE WOOD	
08 BEIGE	24 PERGAMON	36 TORTORA	

GROUTING CONSUMPTION g/m²

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

$$A \times B \times \underset{\text{in mm}}{} \left[\frac{C + D}{C \times D} \right]_{\text{in cm}} \times 140 = \frac{g}{m^2}$$



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
Resistence 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/m³ TVOC	r.p. No. 392-2018-00504401_G_EN

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.

EMICODE

Emission class	r.p. No. Eurofins
EC1 Plus	392-2018-00504401

FRENCH VOC LABEL

Emission class	r.p. No. Eurofins
Classe A+	392-2018-00504402

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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