skycolors evolution

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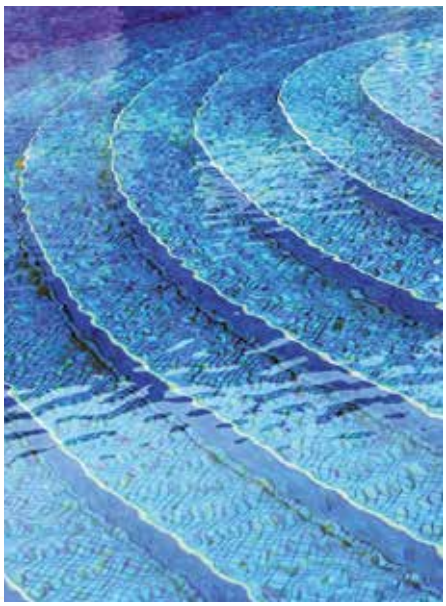

SKYCOLORS EVOLUTION

Two-component epoxy sealant.
Bright finish and unique colours.
Ideal for places where perfect hygiene is required. For joints 1 to 15 mm wide.

groutings
and sealants

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EN 12004 as ADHESIVE

EN 12004 as ADHESIVE

EN 13888 as SEALANT

MAIN FEATURES

Optimum workability and easy use
Non-absorbent
Glossy finish
Optimum cleanability
Uniform shades. Colorfast over time
Stain resistant
High degree of hardness
Good chemical resistance (see table)
Guaranteed all-over visual effect

LOW-VOC product

TESTED BY EUROFINS

APPEARANCE

Comp. A: thick paste in 16 colours (see colour card in www.technokolla.com)
Comp. B: viscous liquid

STORAGE

24 months in dry place at temperatures from 10 to 30°C

FIELDS OF USE

- Grouting joints in ceramic floors of all types, such as: ceramic or glass mosaic, porcelain stoneware, split tiles, natural stone*.
- In places where an attractive appearance is essential and/or places subject to chemical aggression, such as: Spas, wellness centers, spa pools, swimming pools, bathrooms, kitchen surfaces, etc.
- Suitable for grouting swimming pools, also when filled with seawater.
- SKYCOLORS EVOLUTION can be used as an adhesive (class R2 T in accordance with EN 12004) for glueing the above mentioned cladding materials to iron and fiberglass reinforced plastic.

* To make sure there is no change in colour, it is advisable to perform a cleanability test before grouting natural stone materials.

NATURE OF THE PRODUCT

SKYCOLORS EVOLUTION consists of two components based on epoxy resins, mineral charges and specific additives.
For further details, ask the technical office for the safety brief or download it from the website www.technokolla.com.

RECOMMENDED ACCESSORIES

Soft white felt

HOW TO PREPARE THE MIXTURE

SKYCOLORS EVOLUTION is a “reactive” sealant. This means that it sets through chemical reaction between two components, A and B. It is very important to thoroughly mix these components together. Proceed by pouring the liquid (comp. B) onto the paste (comp. A), then stir using a blender with a spiral whisk attachment. The reaction developed by these products is exothermic (heat develops). Remember that if the components are stirred at high speed, the heat developed will considerably speed up the hardening process thereby shortening the pot life of the product. The paste obtained is creamy and can be easily applied by trowel.

GROUTING OPERATION

Use a rubber applicator to spread SKYCOLORS EVOLUTION. Make sure that the joints are filled completely throughout their depth. Wipe off any excess sealant with the edge of the applicator. Squeeze a sponge soaked in water over the grouted surface and emulsify the product with medium-hard felt by making circular movements over the surface. Take care not to empty the joint. Excess product can be easily removed with a soft rubber scraper. After cleaning, it is very important for the tile surface to be completely free from traces of grouting as it is very difficult to remove once hardened. Frequently rinse the sponge with clean water when cleaning.

AVAILABLE COLOURS

(200) 13 Neutral
(202) 19 White light
(203) 17 Light ivory
(204) 34 Pine
(207) 36 Tortora
(209) 26 Pearl grey
(210) 27 London smoke
(211) 30 Total Black
(212) 04 Anthracite
01 Manhattan
02 Ice
03 Ash
29 Light grey
31 Silver
32 Grey
33 Graphite

WARNINGS AND RECOMMENDATIONS

- do not attempt to use random percentages of the product: an incorrect catalysis ratio will compromise the hardening process
- do not use the product after it becomes difficult to apply. Prepare fresh mixture
- to avoid carbonatation, do not apply the product in difficult climatic conditions (e.g.: low temperatures or very damp conditions)
- the product is difficult to apply at temperatures below 12°C. Do not add anything to make the product more fluid
- spread the product rapidly in hot weather to prevent it from hardening too fast
- to prevent carbonatation, which would change the colour of the product, do not cover the surface immediately after grouting
- wait at least 24-48 hours before protecting the surface, depending on the ambient temperature and humidity
- wear rubber gloves at all times when using the product
- the consumption data refer to the following types of tiles: Single-fired tiles, Split tiles, Porcelain stoneware
- do not use on porous surfaces (e.g.: cotto)
- do not use SKYCOLORS EVOLUTION when there is water in the joints
- do not use for grouting subject to movement
- do not wash with acid or strong oxidizing substances during application
- perform a cleanability test before applying the product to surfaces with patterns or inserts
- do not allow washing water to remain on freshly applied grouting
- prolonged contact with acids and oxidants creates colour changes

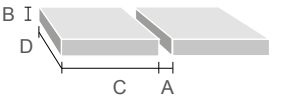
CONSUMPTION grouting g/m²

TILE in cm	JOINT in mm					
	2	3	4	6	8	10
Glass mosaic 2x2x0.38	1500					
2x2x0.4	1300					
5x5x0.4	500	770	1000			
10x10x0.6	380	580	770	1150	1550	1900
7.5x15x0.7	450	680	900	1350	1800	2200
15x15x0.9	380	580	770	1150	1550	1900
20x20x0.9	290	430	580	900	1150	1400
12x24x0.9		540	720	1100	1400	1800
12x24x1.4		840	1100	1700	2200	2800
20x30x0.9	240	360	480	720	960	1200
30x30x1	210	320	430	640	850	1100
30x60x1	160	240	320	480	640	800
40x40x1	160	240	320	480	640	800
50x50x1	130	190	260	390	510	640
60x120x1.1	90	130	180	270	350	440

CONSUMPTION CALCULATION FORMULA

$$A \times B \times \left[\frac{C + D}{C \times D}\right] \times 160 = \frac{g}{m^2}$$

A x B: in mm; C x D: in cm



TECHNICAL DATA	VALUE	REQUIREMENT	STANDARD
Mixing ratio	(A:B) 94:6		
Application temperature allowed	min. +10°C, max +30°C		
Suggested application temperature	min. +12°C, max +25°C		
Pot life	*45 min		
Treadable	*24 h		
Surface can be used after	*7 days		
Thermal resistance	**from -20 °C to + 100°C		
Abrasion resistance	≤ 250 mm³	≤ 250 mm³	EN 12808-2
Flexural strength after dry storage	≥ 30 N/mm²	≥ 30 N/mm²	EN 12808-3
Compressive strength after dry storage	≥ 45 N/mm²	≥ 45 N/mm²	EN 12808-3
Shrinkage	≤ 1.5 mm/m	≤ 1.5 mm/m	EN 12808-4
Water absorption after 240 min.	≤ 0.1 g	≤ 0.1 g	EN 12808-5
Initial bond	~ 5.1 N/mm²	≥ 2 N/mm²	EN 12003
Bond after immersion in water	~ 3.2 N/mm²	≥ 2 N/mm²	EN 12003
Bond after thermal shock	~ 2.7 N/mm²	≥ 2 N/mm²	EN 12003
Creep	≤ 0.5 mm	≤ 0.5 mm	EN 1308
Open time	* 20 min.	° 20 min.	EN 1346

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

** the maximum temperature is to be understood as an occasional service and not as a continuous one.

SPECIFICATION

Ceramic floor and wall tiles must be sealed using glossy-finish epoxy-based grouting with high chemical resistance, such as Technokolla's SKYCOLORS EVOLUTION, which can be used to grout joints up to 15 mm wide.

Technokolla reminds you to examine the **"notes"** document which 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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CHEMICAL RESISTANCE OF CERAMIC TILING GROUTED WITH SKYCOLORS EVOLUTION

TECHNICAL DATA

GROUP	NAME	CONCENTRATION %	CONTINUOUS SERVICE 20°C	DISCONTINUOUS SERVICE 20°C
ACIDS				
	Acetic	2,5	-	(+)
	“	5	-	-
	“			
	Hydrochloric	37	(+)	+
	Chromic	20	-	-
	Citric	10	-	-
	Formic	2,5	-	(+)
	“	10	-	-
	Lactic	2,5	-	(+)
	“	5	-	-
	“			
	Nitric	25	(+)	+
	“	50	-	-
	Oleic			-
	Phosphoric	50	-	(+)
	“	75	-	-
	Sulphuric	1,5	+	+
	“	50	(+)	+
	“	98	-	-
	Tannic	10	(+)	+
	Tartaric	10	(+)	+
	Oxalic	10	+	+
ALKALIS AND SATURATED SOLUTIONS				
	Ammonia	25	+	+
	Caustic soda	50	+	+
	Potash	50	-	(+)
	Sodium hypochlorite			
	Active chlorine	6,5 g/l	(+)	+
	Active chlorine	162 g/l	-	-
SATURATED SOLUTIONS				
	Sodium hyposulphite		+	+
	Sodium chloride		+	+
	Calcium chloride		+	+
	Iron chloride		+	+
	Aluminium sulphate		+	+
	Sugar		+	+
	Hydrogen peroxide	1	(+)	+
	“	10	(+)	+
	Sodium bisulphite		(+)	+
OILS AND FUELS				
	Gasoline		+	+
	Petroleum		+	+
	Diesel fuel		+	+
	Olive oil		+	+
SOLVENTS				
	Ethyl alcohol	15	-	(+)
	Acetone		-	-
	Glycol		+	+
	Glycerine		+	+
	Perchloroethylene		-	-
	Trichloroethane		-	-
	Trichloroethylene		-	-
	Methylene chloride		-	-
	Toluol		-	-
	Benzol		-	-
	Xylol		-	-

KEY: **+** Optimum resistance **(+)** Fair resistance **-** Poor resistance

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