Construction

SikaCeram® EpoxyGrout

Anti-acid epoxy grout with glossy colours and delicate finishing

Positioning

Description

SikaCeram EpoxyGrout consists of two components containing epoxy resins, quartz sands and specialist additives. It is ideal for areas to be kept perfectly clean and is designed for joints from 2 – 20mm in width.

Uses

- Grouting ceramic or stone* floor and wall tiles such as: vitreous or marble mosaic, porcelain stoneware and clinker tiles. In places or surfaces subjected to acid aggression, or in places where a non absorbent joint is necessary, such as: dairies, tanneries, paper-mills, laboratory tables, abattoirs, industrial kitchens, etc.
- As an adhesive (CLASS R2T in accordance with EN 12004) for gluing the above mentioned cladding to iron and fiberglass reinforced plastic.
- Grouting floors subjected to heavy traffic, industrial warehouses, shopping centers, etc.
- Suitable for grouting swimming-pools also if filled with sea-water.

* Before grouting of a natural stone, it is advisable to check if cleanable.

Advantages

- Highly resistant against chemicals
- Optimum workability
- Non-absorbent
- Very easy to clean
- Does not yellow
- Does not stain
- High hardness

Product Data

Colour: SikaCeram EpoxyGrout is available in a range of colours.

Packaging: 2 kg and 5 kg pails.

Storage & Shelf Life: 24 months in the original packaging, protected from frost and high temperatures (max. +35°C).

Technical Data

Appearance : Component A: thick paste Component B: viscous liquid
Mixing ratio: (A:B) 94:6
Application temp.: min. +10°C, max +30°C
Specific gravity: 1.6 Kg/lt
Ageing time: 3 min
Pot life: *50 min
Walkable after: *24 h
Surface can be used after: *4 days
Thermal resistance: -20 °C to + 100°C

	Value	Standard	Test Method
Abrasion resistance:	160 mm^3	≤ 250 mm^3	EN 12808-2
Resistance against flexion after dry storage:	38 N/mm^2	≥ 30 N/mm^2	EN 12808-3
Resistance against compression after dry storage:	58 N/mm^2	≥ 45 N/mm^2	EN 12808-3
Shrinkage:	0.8 mm/m	≤ 1.5 mm/m	EN 12808-4
Water absorption after 240 min.	0.05 gr	≤ 0.1 gr	EN 12808-5

* these times are referred to a temperature of 23°C – 50% r.h. They are shorter at higher temperatures and longer at lower ones.

Consumption table

GROUT COVERAGE gr/m²						
Tile size In cm	Gaps in mm					
	2	3	4	6	8	10
Vitreous 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
20x20x0.9	290	430	580	870	1150	1400
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

Coverage can be also calculated through the following formula:
Coverage (g/m^2) = A x B x [(C + D)/(C x D)] x 160.
A = Gap width (mm), B = Tile height (mm), C = Tile length (cm), D = Tile width (cm),

Application Conditions

Methods of use

Mixing procedure

Proceed by pouring the liquid (comp. B) into the paste (Comp. A), then stir with a blender (preferably) with a spiral whisk. 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 and, thus, shorten the time it can be worked. The paste obtained should be creamy and can be easily applied with a trowel.

Application / Cleaning

Apply SikaCeram EpoxyGrout with a suitable rubber squeegee, and make sure that the gaps are filled completely. Wipe off any excess material with the edge of the applicator. Squeeze a sponge soaked in water over the grouted surface and, using a felt of medium hardness, emulsify the product by making circular movements, taking care to prevent the gap from being emptied. Any excess product can be easily removed with a soft rubber doctor blade. After the cleaning operation, it is very important for the tiles to be completely free from traces of grouting as, once this has hardened, it would be very difficult to remove. The sponge must therefore be rinsed out often with clean water during the cleaning operation.

SikaCeram EpoxyGrout-Glitter

All the colours of SikaCeram EpoxyGrout, except the colour SNOW, can be mixed with golden or silvery glitters in a dosage of 100g up to 200 g (per 2 kg of SikaCeram EpoxyGrout), depending on the desired brightness.
For a uniform mixture, normally mix components A+B; then add the glitters in two or three doses, alternating the mixing by blender with the addition of glitters.
Note: we do not recommend the use of SikaCeram EpoxyGrout-glitter as an adhesive.

TECHNICAL SPECIFICATIONS

Chemical resistance of ceramic tiling grouted with SikaCeram EpoxyGrout*

GROUP	NAME	CONCENTRATION %	CONTINUOUS SERVICE 20°C	DISCONTINUOUS SERVICE 20°C
ACIDS				
	Acetic	2.5	+	+
	"	5	(+)	+
	"	10	-	-
	Hydrochloric	37	(+)	+
	Chromic	20	-	-
	Chromic	10	-	-
	Formic	2.5	+	+
	"	10	-	-
	Lactic	2.5	+	+
	"	5	(+)	+
	"	10	-	(+)
	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	162g/l	-	-
SATURATED SOLUTIONS				
	Sodium hyposulphite		+	+
	Sodium chloride		+	+
	Calcium chloride		+	+
	Ferrous chloride		+	+
	Aluminium sulphate		+	+
	Sugar	+	+	
	Hydrogen peroxide	1	+	+
	"	10	+	+
	Sodium bisulphite		+	+
OILS AND FUELS				
	Gasoline		+	+
	Petroleum		+	+
	Diesel fuel		+	+
	Olive oil		+	+
SOLVENTS				
	Ethyl alcohol		+	+
	Acetone		-	-
	Glycol		+	+
	Glycerine		+	+
	Perchloroethylene		-	-
	Trichloroethane		-	-
	Trichloroethylene		-	-
	Methylene chloride		-	-
	Toluol		-	-
	Benzol		-	-
	Xylol		-	-

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

* The table of the chemical values does not apply to the SikaCeram EpoxyGrout Glitter.

Notes on Application / Limitations

- Do not attempt to use random percentages of the product: an incorrect catalysis ratio would compromise the hardening process
- Do not use the product after it becomes difficult to apply. Prepare a fresh mixture
- Wear rubber gloves at all times when using the product
- The amount required refers to the following types of tiles: single-fired tiles, split tiles, refined porcelain stoneware.
- Do not use on porous surfaces (e.g.: cotto)
- Do not use SikaCeram EpoxyGrout when there is water in the gaps
- Do not use dark colours on unglazed split tiles
- Do not use for grouting that is subject to movement
- Do not wash with acid or strong oxidizing substances during application

Notes

All technical data stated in this Product Data Sheet are based on tests. Actual measured data may vary due to circumstances beyond our control.

Local Restrictions

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

Health & Safety Information

Protective Measures

- To avoid allergic reactions, we recommend the use of protective gloves. Change soiled work clothes and wash hands before breaks and after finishing work.
- Local regulations as well as health and safety advice on packaging labels must be observed.
- For further information refer to the Sika Material Safety Data Sheet which is available on www.sika.co.nz, or on request.
- If in doubt always follow the directions given on the pack or label.

Legal Notes

Responsible Care

Certified Quality System ISO 9001/EN 29001 since 1986

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