

## PRODUCT DATA SHEET

# SikaCeram<sup>®</sup> EpoxyGrout

2-COMPONENT EPOXY GROUT FOR JOINTS 2 TO 20 MM WIDE, CLASS RG ACCORDING TO EN 13888



### DESCRIPTION

SikaCeram<sup>®</sup> EpoxyGrout is a 2-component grout, based on epoxy resin, contains quartz aggregates and specific admixtures, has a delicate finishing and glossy colours and is ideal for areas that need to be kept perfectly clean.

### USES

- Grouting ceramic or stone\* floor and wall tiles such as vitreous or marble mosaic, porcelain stoneware, klinker, over areas or surfaces subjected to acid aggression, or in areas where non-absorbent tile grouts are demanded, such as dairies, tanneries, paper-mills, laboratories of all kinds, slaughterhouses, professional use kitchens, etc.
- Grouting floors subjected to heavy traffic, industrial warehouses, shopping centers, etc.
- Suitable for grouting swimming pool tiles, even when the pool is filled with seawater

\* Before grouting on natural stone, it is advisable to check the cleanability and if stone colour is affected

### CHARACTERISTICS / ADVANTAGES

- Good resistance against chemicals
- Optimum workability and easy use
- Very easy to clean
- High hardness

### APPROVALS / CERTIFICATES

- 2-component epoxy grout, class RG according to EN 13888
- CE Marking and Declaration of Performance to EN 12004 - Adhesives for ceramic tiles

### PRODUCT INFORMATION

<b>Composition</b>	Epoxy resin, quartz sand and special additives
<b>Packaging</b>	Plastic cans of 5 kg (A+B)
<b>Appearance / Colour</b>	Snow, ivory, agate, petra, moonstone, night (please ask for the colour card for more colour shades)
	Comp.A: Dense coloured paste / Comp. B: viscous liquid
<b>Shelf life</b>	24 months from date of production
<b>Storage conditions</b>	Stored in undamaged original sealed packaging, in dry conditions and protected from direct sunlight, freezing and high temperatures (max 35 °C).
<b>Density</b>	~ 1.60 kg/l

**TECHNICAL INFORMATION**

<b>Abrasion Resistance</b>	≤ 250 mm <sup>3</sup>	(EN 12808-2)
<b>Compressive Strength</b>	After dry storage: ≥ 45 MPa	(EN 12808-3)
<b>Tensile Strength in Flexure</b>	After dry storage: ≥ 30 MPa	(EN 12808-3)
<b>Shrinkage</b>	≤ 1.5 mm/m	(EN 12808-4)
<b>Tensile Adhesion Strength</b>	Standard conditions (after 7 days): ~ 5.6 N/mm <sup>2</sup>	(EN 12003)
	After water immersion: ~ 7.4 N/mm <sup>2</sup>	(EN 12003)
	After water thermal shock: ~ 2.5 N/mm <sup>2</sup>	(EN 12003)

**Chemical Resistance****Acids:**

Name	Concentration	Continuous service +20°C	Discontinuous service +20°C
Acetic	2.5	-	(+)
	5	-	-
	10	-	-
Hydrochloric	37	(+)	+
Chromic	20	-	-
Citric	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:**

Name	Concentration	Continuous service +20°C	Discontinuous service +20°C
Ammonia	25	+	+
Caustic soda	50	+	+
Potash	50	-	(+)
Sodium hypochlorite:	6.5 g/l	(+)	+
	162 g/l	-	-
Active chlorine			
Active chlorine			

**Saturated solutions:**

Name	Concentration	Continuous service +20°C	Discontinuous service +20°C
Sodium hypo-sulphite		+	+
Sodium chloride		+	+
Calcium chloride		+	+
Iron chloride		+	+
Aluminium sulphate		+	+
Sugar		+	+
Hydrogen peroxide	1 10	(+) (+)	+
Sodium bisulphite		(+)	+

**Oils and fuels:**

Name	Concentration	Continuous service +20°C	Discontinuous service +20°C
Gasoline		+	+
Petroleum		+	+
Diesel fuel		+	+
Olive oil		+	+

**Solvents:**

Name	Concentration	Continuous service +20°C	Discontinuous service +20°C
Ethyl alcohol	15	-	(+)
Acetone		-	-
Glycol		+	+
Glycerine		+	+
Perchloroethylene		-	-
Trichloroethane		-	-
Trichloroethylene		-	-
Methylene chloride		-	-
Toluol		-	-
Benzol		-	-
Xylol		-	-

Key: + optimum resistance; (+) fair resistance; - poor resistance

<b>Water Absorption</b>	After 240 min: 0.1 g	(EN 12808-5)
<b>Skid / Slip Resistance</b>	≤ 0.5 mm	(EN 1308)
<b>Service Temperature</b>	-20°C up to +100°C	
<b>Joint width</b>	2-20 mm	

## APPLICATION INFORMATION

<b>Mixing Ratio</b>	A:B = 94:6					
<b>Consumption</b>	The consumption is depending on the surface and roughness of the substrate as well as on the size of the tiles and the gaps among them. As a guide, coverage is indicated in following table, expressed in g/m <sup>2</sup> .					
	<b>Tile size</b>	<b>Joint width</b>				
	<b>[cm]</b>	<b>2 mm</b>	<b>4 mm</b>	<b>6 mm</b>	<b>8 mm</b>	<b>10 mm</b>
	2x2x0.4*	1500	-	-	-	-
	5x5x0.4	500	1000	-	-	-
	10x10x0.6	380	770	1150	1550	1900
	7.5x15x0.7	450	900	1350	1800	2200
	15x15x0.9	380	770	1150	1550	1900
	20x20x0.9	290	580	900	1150	1400
	20x20x1.4	450	900	1350	1800	2240
	12x24x0.9	-	720	110	1400	1800
	12x24x1.4	-	1100	1700	2200	2800
	20x30x0.9	240	480	720	960	1200
	30x30x1	210	430	640	850	1100
	30x60x1	160	320	480	640	800
	40x40x1	160	320	480	640	800
	50x50x1	130	260	390	510	640
	60x120x1.1	90	180	270	350	440
	* Vitreous glass mosaic tiles					
<b>Ambient Air Temperature</b>	+12°C up to +30°C					
<b>Substrate Temperature</b>	+12°C up to +30°C					
<b>Pot Life</b>	~ 45 minutes*					
<b>Open Time</b>	~ 20 minutes*					
<b>Waiting Time</b>	Before grouting allow: <ul style="list-style-type: none"> <li>▪ Grouting on floor with normal adhesive: 24 h*</li> <li>▪ Grouting on floor with rapid setting adhesive: 4-6 h*</li> <li>▪ Grouting on screed: 8-10 days*</li> <li>▪ Grouting on wall with normal adhesive: 5-6 h*</li> <li>▪ Grouting on wall with rapid setting adhesive: 2 h*</li> </ul>					
<b>Applied Product Ready for Use</b>	<ul style="list-style-type: none"> <li>▪ Light foot traffic after 24 h*</li> <li>▪ Ready for use after 7 days*</li> </ul>					
	* Values refer at laboratory conditions: +23°C – r.h. 50%. Higher temperatures shorten the indicated time period while, oppositely, lower temperatures extend them.					

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

Clean and dry, homogeneous, free from oils and grease, dust and loose or friable particles. Remnants from tile adhesive must be removed.

### MIXING

SikaCeram® EpoxyGrout is a reactive grout. This means that it sets through a chemical reaction between the two components, A and B. It is therefore very important to ensure that these components are thoroughly mixed together.

Proceed by pouring the liquid (comp. B) into the paste (Comp. A) and then mix with a blender fitted with a

preferably spiral whisk. The reaction that takes place is exothermic (heat development). Take into account that if the components are stirred at high speed, the developed heat will considerably speed up the hardening process and, thus, shorten the available workability time. The obtained paste will be creamy and can be easily applied with a squeegee.

### APPLICATION

#### Application of the product

SikaCeram® EpoxyGrout is applied using a rubber squeegee to fill the joints over their whole width. Wipe off any excess of the material with the edge of the squeegee.

## Tile cleaning

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 not to damage the joint. After the cleaning operation, it is very important for the tiles to be completely free from traces of the grout, as once the product has hardened, it can only be mechanically removed. The sponge must therefore be rinsed off often with clean water during the cleaning operation.

## CLEANING OF EQUIPMENT

Removal of fresh remnants from tools and application equipment can be carried out using water immediately after use. Hardened / cured material can be removed using SikaCeram® EpoxyRemove.

## IMPORTANT CONSIDERATIONS

- Protract contact with acids and oxidants causes colour change.
- Do not attempt to use random mixing ratios of the two product components: this might compromise the hardening process.
- Do not use the product after it has started to set. Prepare a fresh mixture.
- Use suitable protection equipment while handling and applying the product.
- Do not use on porous surfaces (e.g. cotto).
- Do not use SikaCeram® EpoxyGrout when there is water in the joints.
- Do not use dark colour shades of the product on unglazed split tiles.
- Do not use for grouts subjected to movements.
- Do not wash with acid or strong oxidizing substances during application.
- Evaluate the cleanability before use on tiles that have a special nature.
- Avoid stagnation of cleaning water on joints recently tiled.

## BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory 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.

## ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

## LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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