

PRODUCT DATA SHEET

SikaCeram® SmallGrout

CEMENT-BASED TILE GROUT FOR GAPS UP TO 4 MM WIDTH

DESCRIPTION

SikaCeram® SmallGrout is a cementitious, single-pack, premixed tile grout that is suitable for joints from 0 to 4 mm wide. SikaCeram® SmallGrout provides active protection to prevent mould, bacterial and fungal growths, which could otherwise stain and damage tile grouts. The new colouring system keeps the finish bright and stable without fading for a longer time. SikaCeram® SmallGrout makes tile joints very water-resistant and therefore it is also suitable for use in applications such as tiled linings for water tanks and swimming pools. EN 13888 class CG2 WA.

USES

SikaCeram® SmallGrout is suitable for grouting the following types of tiles:

- Ceramic tiles
- Earthenware tiles
- Glass mosaic
- Marble and other natural stone tiles

SikaCeram® SmallGrout is suitable for use indoors and outdoors on floors and walls, including high performance and demanding applications, such as:

- Swimming pools
- Areas with underfloor heating
- Industrial and heavily trafficked floors
- Exposed building facades

CHARACTERISTICS / ADVANTAGES

- Water-resistant
- Abrasion resistant
- Tough
- UV resistant
- Frost proof
- Mould-inhibiting
- Fungicidal
- Sanitary
- Bactericidal

APPROVALS / CERTIFICATES

Compliance testing for conformity to EN 13888.

PRODUCT INFORMATION

Composition	Polymer modified, portland cement based, with selected fine silica/quartz sand, water retainers and other special additives.			
Packaging	5 kg bag			
Appearance / Colour	Fine powder Available in 5 colours			
	White	Light grey	Manhattan	Ash
	Beige			
Shelf life	12 months from date of production.			
Storage conditions	Undamaged original sealed packaging, in dry, cool conditions.			
Maximum Grain Size	D _{max} : 0.1 mm			
Product Declaration	CG2 WA			(EN 13888)

TECHNICAL INFORMATION

Abrasion Resistance	$\leq 1000 \text{ mm}^3$	(EN 12808-2)
Compressive Strength	After dry storage	$\geq 20 \text{ N / mm}^2$
	After freeze-thaw cycles	$\geq 15 \text{ N / mm}^2$
Tensile Strength in Flexure	After dry storage	$\geq 4 \text{ N / mm}^2$
	After freeze-thaw cycles	$\geq 2.5 \text{ N / mm}^2$
Shrinkage	$\leq 3 \text{ mm/m}$	(EN 12808-4)
Water Absorption	After 30 min	$\leq 2 \text{ g}$
	After 240 min	$\leq 4 \text{ g}$
Joint width	From 0 to 4 mm	

APPLICATION INFORMATION

Mixing Ratio ~ 1.75 litres of water per 5 kg bag 35 % \pm 1 %

Fresh Mortar Density ~ 2.0 kg/l

Consumption The consumption is dependent on the surface profile and roughness of the substrate, as well as on the size of the tiles and the joints between them. As a guide, the approximate consumption is given in the following table, expressed in g/m².

Tile Size cm	Joint Width			
	1 mm	2 mm	3 mm	4 mm
Glass mosaic 2 x 2 x 0.4		904		
5 x 5 x 0.4		422	633	845
10 x 10 x 0.6	163	326	488	651
15 x 15 x 0.9	163	326	488	651
20 x 20 x 0.9	187	375	562	749
30 x 30 x 1		188	282	376
30 x 60 x 1		142	214	285
60 x 60 x 1		95	142	190

Consumption can be also calculated through the following formula:

$$S \times [(a+b+l)/(a+l)(b+l)] \times l \times h \times d \times 7400$$

S = Whole surface (m²)

h = Tile thickness (cm)

a, b = Tile size (cm)

d = Fresh mortar density (kg/l)

l = Gaps size (cm)

Ambient Air Temperature +5 °C min. / +35 °C max.

Substrate Temperature +5 °C min. / +35 °C max.

Pot Life ~2 hours

Waiting Time	Before grouting on	Waiting time
	Normal-setting adhesive laid floor tiles	
Fast-setting adhesive laid floor tiles		4–6 hours
Thick-bed (traditional) laid floor tiles		8–10 days
Normal-setting adhesive laid wall tiles		4–6 hours
Fast-setting adhesive laid wall tiles		2 hours

Applied Product Ready for Use

Use

Walkability
Full traffic
Water immersion

Waiting time

24–36 hours
~14 days
~21 days

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

- Substrates must be properly cured, structurally sound, clean, dry and free of all contaminants such as dust, dirt, oil, grease, cement laitance, efflorescence, previous coatings, or any other surface treatments or obstructions such as excess tile adhesive, tile joint spacers, etc...
- Depending on the contaminants to be removed, perform adequate preparation techniques, such as jet washing or blastcleaning, in order to remove all traces of any materials that could reduce the product's adhesion on the substrate.
- For applications in hot climates / environments, or on absorbent substrates, thoroughly pre-dampen the surface immediately prior to the product application, but avoid any ponding / standing water on the surface, which must not be damp to touch and not with a dark-matt / wet surface appearance i.e. it must be saturated surface dry (SSD).

MIXING

- Pour the recommended amount of water into a suitable, clean mixing container. Stir slowly, whilst slowly adding the SikaCeram® SmallGrout powder to the water and then mix thoroughly using a low speed (< 500 rpm.) drill mixer until the material is fully homogeneous and lump free.
- After mixing, leave the product to stand and 'mature' for a few minutes, then briefly stir again prior to application. The finished mix has a very creamy consistency, is uniformly coloured and it is easy to apply and spread.
- For areas requiring only small quantities, these can be mixed by hand, however please measure the water : powder ratio carefully, as even small differences in the mix ratio between batches can result in colour shade variations.
- For high-performance and demanding applications, such as heavily-trafficked floors, exposed facades, swimming pools or for additional flexibility, the mix water can be replaced with a solution of SikaCeram® LatexGrout, normally this is only done with non porous tiles.
- Premature exposure to water or excess water in the mix can result in white efflorescence on the grout surface.

Important notes: Do not add or allow any additional water to be added into the SikaCeram® SmallGrout during or after mixing. Also prevent water contact with the freshly applied material not during cleaning operations, or from excess atmospheric humidity and condensation or residual moisture in the substrate etc. It is equally important to avoid wide temperature fluctuations during application and curing, as well as excessive draughts or forced ventilation. This is because ex-

cess water, temperature variations and excess ventilation, plus application on very porous tiles or substrates leading to rapid water absorption etc. can all result in colour shade differences.

APPLICATION

- SikaCeram® SmallGrout is applied using a rubber blade or trowel using cross-hatch techniques, taking care to ensure the joints are filled uniformly across the whole width and along their full length.
- Using the same blade/trowel in a vertical position, remove the excess from the surface of the tiles.
- When the material starts to set, it is possible to begin the initial cleaning step, using a damp sponge. The remaining grout traces on the tile surfaces can easily be removed the next day by wiping with a clean, soft dry cloth. When SikaCeram® LatexGrout has been used instead of water in the mix, this additional step should be done immediately after the initial cleaning with a damp sponge.
- Avoid application in direct sunlight and/or in excessive draughts or strong winds.

CLEANING OF EQUIPMENT

Thoroughly clean all tools and equipment with clean water before the product has set, preferably immediately after use. Once hardened the product can only be removed by mechanical means.

IMPORTANT CONSIDERATIONS

- Do not exceed the recommended amount of water in the mix. The mix must never be fluid.
 - When coloured materials are applied for aesthetics such as on polished porcelain or natural stone tiles, always carry out cleanability testing prior to the application.
 - On highly absorbent tiles, it is always recommended to thoroughly pre-dampen the surface (SSD) before grouting.
 - Always apply SikaCeram® SmallGrout in a continuous operation and do not interrupt this for more than two hours in the same room or area of tiling.
 - Do not add anything to the product that is not specified in this Product Data Sheet.
- SikaCeram® SmallGrout must not be applied in the following situations:
- For any applications not explicitly described in this Product Data Sheet.

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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