

## PRODUCT DATA SHEET

# SikaCeram<sup>®</sup>-638 Colour Grout Super

Superior performance coloured cementitious floor and wall tile grout

### DESCRIPTION

SikaCeram<sup>®</sup>-638 Colour Grout Super is a cementitious coloured floor and wall tile grout for use in joints from 1–6 mm in width. Additives contained in the powder provide protection against water and contaminants while maintaining a colour stable, abrasion resistant and durable finish. Available in many colours.

### USES

Grouting the following tile types:

- Ceramic tiles
- Earthenware tiles
- Vitrified and fully vitrified tiles
- Porcelain tiles
- Glass mosaic
- Marble and other natural stone tiles

### CHARACTERISTICS / ADVANTAGES

- Floor and wall application
- Abrasion resistant
- High degree of hardness
- UV resistant
- Frost proof
- Easy to clean
- Easy to use, only water to be added
- Interior or exterior use
- Many colours available

### PRODUCT INFORMATION

<b>Chemical base</b>	Portland cement, selected quartz sand, water retainers, polymers and other special additives
<b>Packaging</b>	1 kg pouch
<b>Shelf life</b>	12 months from date of production
<b>Storage conditions</b>	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +35 °C.
<b>Appearance / Colour</b>	Powder / White and Ivory For more colour options, contact Sika representative.

#### IMPORTANT

The colours given in the shade cards are for indicative purpose only, the actual shades may vary slightly at site.

For colour matching: Apply colour sample and confirm selected colour under real lighting conditions.

#### IMPORTANT

Colour uniformity cannot be completely guaranteed from batch to batch. Mix the grouts with different batch numbers before adding water.

## TECHNICAL INFORMATION

Compressive strength	≥ 10 N/mm <sup>2</sup> (28 days, +30 °C)	(ASTM C109)
Flexural strength	≥ 2.5 N/mm <sup>2</sup> (28 days, +30 °C)	(EN 12808-3)
Shrinkage	< 3 mm/m	(EN 12808-4)
Water absorption	After 30 minutes	≤ 5 g
	After 240 minutes	≤ 10 g
Joint width	1–6 mm	

## APPLICATION INFORMATION

Mixing ratio	Water : Powder = 0.31–0.35 310–350 mL of water for 1 kg pack of SikaCeram®-638 Colour Grout Super
Fresh mortar density	~1.9 kg/L (+27 °C) (EN ISO 2811-1)

**Consumption** The consumption is dependent on the size of the tiles, joint width and depth.

**Consumption guide: g/m<sup>2</sup>**

Tile size in cm	Joint width			
	2 mm	3 mm	5 mm	6 mm
Glass mosaic	1500	-	-	-
2 × 2 × 0.4				
5 × 5 × 0.4	450	-	-	-
10 × 10 × 0.6	450	500	840	1350
15 × 15 × 0.9	450	680	1140	1370
20 × 20 × 0.9	340	510	850	1030
30 × 30 × 1	250	380	630	760
30 × 60 × 1	190	280	470	570
50 × 50 × 1	150	230	380	450
60 × 120 × 1.1	100	160	260	310

These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level, wastage or any other variations. Apply product to a test area to calculate the exact consumption for the specific substrate conditions and proposed application equipment.

Theoretical consumption (g/m<sup>2</sup>) can be also calculated with the following formula:  $A \times B \times [(C + D)/(C \times D)] \times W$

A = Tile width (mm)

B = Tile height (mm)

C = Tile length (cm)

D = Tile width (cm)

W = Wet density (kg/L)

Ambient air temperature	+5 °C min. / +35 °C max.	
Substrate temperature	+5 °C min. / +35 °C max.	
Pot life	~90 minutes (100 g mass, +25 °C)	
Waiting time	<b>Before grouting on floor tiles laid with</b>	<b>Waiting time</b>
	Normal-setting adhesive	24–36 hours
	Fast-setting adhesive	4–6 hours
	Thick-bed (traditional) adhesive	8–10 days

Before grouting on wall tiles laid with	Waiting time
Normal-setting adhesive	4–6 hours
Fast-setting adhesive	2 hours

Above times are indicative. Always consult the appropriate tile adhesive Product Data Sheet.

Applied product ready for use	Use	Waiting time
	Pedestrian traffic	24–36 hours
	Full traffic	~14 days
	Water immersion	~21 days

## 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.

## USES

## ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

### EQUIPMENT

#### Mixing equipment

- Low speed electric single or double spiral paddle mixer (< 500 rpm)

#### Application equipment

- Grout spreader
- Squeegee
- Grouting float / trowel
- Sponge
- Soft cloth
- Grout finishing tool

### SUBSTRATE QUALITY

- Check joints are dry, clean, and clear of excess adhesive, contaminants and tile joint spacers.
- Avoid any ponding / standing water on the surface.
- Surface must not be damp to touch.

### SUBSTRATE PREPARATION

- Remove any obstructions from joint before grout application.
- For applications in hot climates / environments, or on absorbent substrates, thoroughly pre-dampen the surface immediately prior to product application.

### MIXING

#### IMPORTANT

Avoid over-mixing to minimise air entrainment.

#### IMPORTANT

Do not add additional water into the mixed product after mixing.

#### IMPORTANT

Do not exceed the recommended amount of water in the mix. The mix must never be fluid.

1. Pour the minimum recommended amount of clean cold water into a clean mixing container.
2. Gradually add SikaCeram®-638 Colour Grout Super powder to the water while mixing.
3. Mix thoroughly for ~3 minutes until a uniformly coloured, smooth mix is achieved. Add additional water, if necessary to the maximum specified amount.
4. Do not mix for ~5 minutes to allow mixed product to 'mature'.
5. Remix for ~30 seconds.

### APPLICATION

#### IMPORTANT

Check adhesive has fully set before grouting.

#### IMPORTANT

Protect freshly applied material from water.

1. Apply SikaCeram®-638 Colour Grout Super using a grout spreader, squeegee or grouting float / trowel.
2. Completely fill and compact the joints uniformly.
3. If required, finish grout with a grout finishing tool while grout is wet.
4. Using the same spreader / float, remove excess grout from the tile surfaces moving the tool diagonally across the joints.
5. When the grout is touch dry, use a damp sponge or sponge float to clean the tile surfaces. Clean sponge regularly with clean water.
6. When the grout has set hard enough in the joint (finger-nail hard), polish the tile surfaces by wiping with a clean, soft dry cloth.

Note: For high-performance and demanding applications, such as heavily trafficked floors, exposed facades, swimming pools or for additional flexibility, use SikaCeram®-688 Colour Grout Premium (Refer to the individual Product Data Sheet).

### CLEANING OF TOOLS

Clean all tools and application equipment with water after use. Hardened material can only be removed mechanically.

## LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

## 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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### Product Data Sheet

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