

PRODUCT DATA SHEET

SikaCeram®-690 Elite

Cementitious wall / floor tile grout for joints 1 mm to 10 mm

PRODUCT DESCRIPTION

SikaCeram®-690 Elite is a cementitious, wall / floor tile grout powder for use in joints from 1 mm to 10 mm in width. Especially designed for grouting fully vitrified tiles, glass ceramic and natural stones sensitive to discolouration. SikaCeram®-690 Elite has increased color consistency, very good flank adhesion and increased abrasion resistance. For indoor and outdoor use.

USES

Grouting the following tile types :

- Artificial stone tiles
- Fully vitrified tiles
- Glass tiles
- Glazed ceramic tiles
- Marble and other natural stones sensitive to discolouration
- Mosaic tiles
- Stoneware tiles

Grouting tiles for the following applications:

- Balconies
- Bathrooms
- Commercial environments
- Facades
- Heated floors (Water and electric systems)
- Terraces

CHARACTERISTICS / ADVANTAGES

- Grout joint range: 1–10 mm
- Floor and wall application
- Available in many colours
- Water-repellent
- Low shrinkage
- Abrasion resistant
- Frost proof
- Smooth finish achievable
- Colour consistency
- Good durability
- Stain resistant and easy to clean

PRODUCT INFORMATION

Chemical Base	Polymer modified, Portland cement based, with selected fine silica/quartz sand, water retainers and other special additives.
Packaging	5 kg bags
Appearance / Colour	White and grey powder
Shelf Life	24 months from date of production.
Storage Conditions	Product must be stored in original, unopened and undamaged packaging in dry conditions between +5 °C and +30 °C. Always refer to packaging.

TECHNICAL INFORMATION

Abrasion Resistance	≤ 1000 mm ³	(EN 12808-2)
Compressive Strength	After dry storage	≥ 15 MPa
	After freeze-thaw cycles	≥ 15 MPa
Flexural Strength	After dry storage	≥ 2.5 MPa
	After freeze-thaw cycles	≥ 2.5 MPa
Shrinkage	≤ 3 mm/m	(EN 12808-4)
Joint width	From 1 to 10 mm Natural/artificial stone tiles: from 1 to 5 mm	
Water Absorption	After 30 minutes	≤ 2 g
	After 240 minutes	≤ 5 g

APPLICATION INFORMATION

Mixing Ratio	0.55-0.58 litre of water per 2 kg of powder 1.40-1.45 litre of water per 5 kg of powder																																																				
Consumption	The consumption is dependent on the size of the tiles, joint width and depth. Consumption guide: g/m ²																																																				
	Tiles / cm A: Joint width / mm																																																				
	<table border="1"> <thead> <tr> <th>C x D x B</th> <th>2</th> <th>4</th> <th>6</th> <th>8</th> <th>10</th> </tr> </thead> <tbody> <tr> <td>5 x 5 x 0.4</td> <td>440</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>10 x 10 x 0.6</td> <td>340</td> <td>660</td> <td>960</td> <td>1250</td> <td>1520</td> </tr> <tr> <td>15 x 15 x 0.9</td> <td>340</td> <td>670</td> <td>990</td> <td>1300</td> <td>1590</td> </tr> <tr> <td>20 x 20 x 0.9</td> <td>260</td> <td>510</td> <td>750</td> <td>1000</td> <td>1220</td> </tr> <tr> <td>30 x 30 x 1</td> <td>190</td> <td>380</td> <td>570</td> <td>750</td> <td>930</td> </tr> <tr> <td>30 x 60 x 1</td> <td>140</td> <td>290</td> <td>430</td> <td>570</td> <td>700</td> </tr> <tr> <td>50 x 50 x 1.2</td> <td>140</td> <td>280</td> <td>410</td> <td>550</td> <td>680</td> </tr> </tbody> </table>					C x D x B	2	4	6	8	10	5 x 5 x 0.4	440					10 x 10 x 0.6	340	660	960	1250	1520	15 x 15 x 0.9	340	670	990	1300	1590	20 x 20 x 0.9	260	510	750	1000	1220	30 x 30 x 1	190	380	570	750	930	30 x 60 x 1	140	290	430	570	700	50 x 50 x 1.2	140	280	410	550	680
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	These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level, waste or any other variations. Apply product to a test area to calculate the exact consumption for the specific substrate conditions and proposed application equipment.																																																				
	A = Gap width (mm); B = Tile height (cm); C = Tile length (cm); D = Tile width (cm)																																																				
Ambient Air Temperature	+5 °C to +25 °C																																																				
Substrate Temperature	+5 °C to +25 °C																																																				
Pot Life	~30 minutes at +20 °C																																																				
Applied Product Ready for Use	Use	Waiting time																																																			
	Pedestrian traffic	~3 hours																																																			
	Full traffic	~7 days																																																			
Values determined in laboratory conditions: +23 °C ± 2 °C, R.H. 50 % ± 5 %. Note: Higher temperatures will reduce the waiting time, lower temperatures increase waiting time.																																																					

VALUE BASE

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

LIMITATIONS

- Prevent contact of freshly applied material with water (including rain), except during cleaning operations. Also prevent exposure with excess atmospheric humidity / condensation or residual moisture in the substrate.
- Avoid significant temperature variations during application and setting times, as well as excessive draughts, forced ventilation or winds.
- Excess water and ventilation, temperature variations, application on very porous tiles or on substrates leading to rapid water absorption can result in colour shade variations.
- When applying coloured grout into joints for aesthetics such as for polished porcelain or natural stone tiles, always carry out cleanability testing on a small area before full application.
- On highly absorbent tiles, it is advised to thoroughly pre-dampen the surface before grouting.
- Always apply SikaCeram®-690 Elite in a continuous operation and do not interrupt for more than two hours in the same room or area of tiling.
- Premature exposure to water or excess water in the mix can result in white efflorescence on the grout surface.
- Avoid application in direct sunlight to avoid cracking in the joint.
- To avoid grout removal from joint, ensure grout has set sufficiently before carrying out the tile cleaning procedure.
- Do not add anything to the product that is not specified in this Product Data Sheet.
- Always perform a test on cleanability and staining before grouting any type of cladding with an absorbent or porous surface.
- Always perform a preliminary test when requiring a colour contrast between grout and tiles.
- The product is not suitable for chemical exposure. Use an epoxy grout from the range of SikaCeram® products.

ECOLOGY, HEALTH AND SAFETY

Local safety regulations must be observed and it advisable to wear PPI when working with this product with particular attention paid to cutting and handling. Transportation Class: The product is not classified as hazardous good for transport. Disposal: The material is recyclable. Disposal must be according to local regulations. Please contact your local Sika sales organisation for more information.

APPLICATION INSTRUCTIONS

EQUIPMENT

Mixing equipment

Electric single paddle mixer (600 rpm) with spiral, helix, hoop, basket, impellor paddle

Application equipment

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

SUBSTRATE QUALITY

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

MIXING

IMPORTANT

Avoid over-mixing to minimise air entrainment.

IMPORTANT

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

IMPORTANT

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

1. Pour the recommended amount of clean cold water into a clean mixing container.
2. Gradually add powder to the water while mixing.
3. Mix thoroughly until a uniformly coloured, smooth mix is achieved.
4. Do not mix for 2–3 minutes to allow mixed product to 'mature'.
5. Remix for ~30 seconds

APPLICATION

1. Apply SikaCeram®-690 Elite 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 (15–45 minutes depending on the absorbency of the tile). Use a damp sponge or sponge float to clean the tile surfaces. Clean sponge regularly with clean water.
6. When grout has set hard enough in the joint (fingernail hard). Polish the tile surfaces by wiping with a clean, soft dry cloth.

CLEANING OF TOOLS

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

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 the 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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