BUILDING TRUST

PRODUCT DATA SHEET

SikaCeram®-690 Elite

A high performance cementitious wall / floor tile grout for joints 1 mm to 10 mm.

DESCRIPTION

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

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
- Porcelain tiles

Grouting tiles for the following applications:
- Balconies
- Bathrooms
- Commercial environments
- Facades
- Heated floors (Water and electric systems)
- Terraces
- Pools and spas

FEATURES

- Grout joint range: 1–10 mm
- Fast setting, walkable after 3 hours
- Floor and wall application
- DUST LESS® Technology reducing the airborne during during the mixing phase by up to 80%
- Available in many colours
- Synthetic resin-modified
- Very smooth and fine visual appearance
- Water and dirt-repellent
- Low shrinkage
- Flexible
- High abrasion resistance
- Frost proof
- Exceptional colour consistency
- Good durability and hardness
- Stain resistant and easy to clean
- Low in cromate according to REACH
- Very Low VOC EMICODE EC1PLUS

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 and colour	Fine 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.
Product declaration	CG2WA according to EN 13007

APPLICATION INFORMATION

Mixing ratio

1.4–1.45 litres of water per 5 kg of powder

Consumption

Quanity of grout required per kg/m² per joint width.

Tile Size	1mm	3mm	6mm	10mm
20x20x5mm	1.1kg	3kg	5kg	
200x200x8mm	0.2kg	0.5kg	1.2kg	1.5kg
300x300x8mm	0.1kg	0.4kg	0.7kg	1.0kg
300x600x8mm	0.1kg	0.3kg	0.5kg	0.7kg
600x600x8mm	0.1kg	0.2kg	0.4kg	0.5kg

The coverage of the grout will vary depending upon the texture, size, and thickness of the tile and width of the grout joint.
Coverage should strictly be taken as a guide only.

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.

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.

IMPORTANT CONSIDERATIONS

- 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 hot sunlight to avoid rapid drying.
- 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.
- Refer to the technical bulletin for applications externally in hot and windy environments located on the SIkaAustralia website, "working in hot and windy environments with SikaCeram 690 Elite grout".

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.

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

Do not mix grout by hand.

SUBSTRATE QUALITY / PRE-TREATMENT

- 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

Grout may need re-stirring during its potlife. Re-stir only without adding additional water.

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. Ensure the sponge is not dripping wet after rinsing.
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 EQUIPMENT

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

LOCAL RESTRICTIONS

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