

Sika® Ceram -501 (Formerly Sika® Tile Grout FJ)

Cementitious Tile Grout

Product Description Sika® Ceram-501 is a 1-component, cementitious tile jointing grout for finer joints up to 4 mm. It is particularly used in conjunction with Sika® Ceram tile adhesives.
Suitable for use in tropical and hot climatic conditions.

Uses Suitable for filling tile joints in

- Ceramic
- Mosaic
- Marble
- Stone
- Brick
- Terrazzo

Characteristics / Advantages

- Easy to use, requires only the addition of water
- Easy application by trowel
- Hardening without cracking or shrinkage
- Dense, smooth and non-dusting

Product Data

Form Powder

Colours White

Packaging 25 kg Bag

Storage Store in dry, cool conditions between 5°C and 35°C. Protect from direct sunlight.

Shelf Life 12 months minimum from date of production if stored properly in undamaged original sealed packaging. in dry and cool conditions.

Technical Data

Chemical Base Cement and fillers

Density Approximately 1.6 kg/lt

Curing Time (at +20°C)

Available time for cleaning residual material	60 minutes with water and sponge
Foot traffic	Min. 24 hours
Fully serviceable	Min. 14 days

Mechanical / Physical Properties

Compressive Strength	Approximately 20 N/mm ² after 28 days (+20°C and 65% r.h.)
Bond Strength	On ceramic tiles: approximately 1.2 N/mm ² at 10 days (+20°C and 65% r.h.) On concrete: Approximately 1.3 N/mm ² at 10 days (+20°C and 65% r.h.)

System Information

Application Details

Yield	16.7 lt per 25 kg bag.
Substrate Quality	The substrate must be structurally sound and free of all contaminants, loose or friable particles, cement laitance, oil and grease.
Substrate Preparation	Weak concrete and/or surface laitance must be removed. Surface defects such as blow holes and voids must be fully exposed. Repairs to the substrate, filling of blowholes/voids must be carried out using appropriate products from the SikaTop®, Sika® MonoTop or Sika® Rep range of materials or site produced mortar improved with Sika® Latex. Allow a waiting time of 24 to 48 hours before laying the tiles. All dust, loose and friable particles must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum. The adhesive or mortar used for bedding the tiles must be completely cured before application of Sika® Ceram-501 .

Application Conditions / Limitations

Substrate Temperature	Min. 5°C Max. 40°C
Ambient Temperature	Min. 5°C Max. 45°C
Relative Air Humidity	Max. 80% r.h.
Dew Point	Beware of condensation! The substrate and uncured floor must be at least 3°C above the dew point to reduce the risk of condensation.

Application Instructions

Mixing	Add 33% clean water (8.25 lt water per 25 kg bag) to the dry powder and mix for at least 3 minutes by slow speed mixer (max. 500 rpm) and until a homogeneous mixture, free of lumps with a creamy consistency is achieved. Do not mix more material than the quantity can be placed in approximately 30 minutes.
Mixing Tools	Sika® Ceram-501 must be mechanically mixed using a forced action mixer or in a clean drum using a slow speed drill and paddle (max. 600 rpm). A normal free fall concrete mixer is not suitable.
Application Method / Tools	Apply Sika® Ceram-501 onto the tile surface and fully pack the joints using diagonal strokes. Use a hard rubber grouting float. Excess grout should be cleaned off the tile surface with a wet sponge while the grout is still fresh. Control joints should be used at all times to ensure uniformity of joint widths.
Curing	Where ambient conditions may lead to rapid surface drying, the use of light water fogging for 48 hours or wet hessian is recommended. Do not commence fogging until final set has been reached.
Cleaning of Tools	Clean all tools and application equipment with water immediately after use. Hardened / cured material can only be removed mechanically.

Potlife (at +25°C)	Approximately 45 - 60 min.
Notes on Application / Limitations	Cementitious substrate age must be at least 28 days. Do not add extra water under any circumstances. Apply only to sound, prepared substrates. Do not use acid based cleaner to wipe down Sika® Ceram-501 Protect freshly applied material from rain.
Notes	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.
Health and Safety Information	For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent Material Safety Data Sheet 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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