BUILDING TRUST

PRODUCT DATA SHEET

SikaCeram®-201

High performance, flexible non-shrink, water resistant cementitious polymer-modified, Tile Adhesive

DESCRIPTION

SikaCeram®-201 is a high performance flexible cementitious adhesive, supplied ready to use with the addition of water. It can be used for bonding ceramic tiles in internal and external situations, for vertical as well as horizontal applications. It can be used in layers up to 5 mm thick. SikaCeram®-201 is suitable for all kinds of tiles for inside and outside application for residential and medium load areas. EN 12004 class C2TE.

USES

Sika® Ceram-201 can be used for bonding ceramic tiles in a continuous thin layer, up to 5 mm. As it has high adhesive strength and flexibility, it can be used in situations where traditional adhesives are not suitable due to the type of tile or the substrate etc.

Sika® Ceram-201 is suitable to bond the following types of high and low absorption tiles:

- Ceramic, extruded and earthenware tiles
- Low absorption ceramic tiles, which have poor adhesion to traditional tile adhesive

Sika® Ceram-201 T can be used on substrates including:

- Concrete and mortar
- Bricks, plaster (with primer)
- Plasterboard, fibre cement
- Anhydrite floors (with primer)
- With underfloor heating
- Existing tiled substrates
- Any substrate where shrinkage movement or thermal expansion can occur

Sika® Ceram-201 (Sika®Ceram 201) can be used on walls and on floors, in exterior or interior situations including:

- Bathrooms, kitchens, balconies, terraces, poolsides etc.

CHARACTERISTICS / ADVANTAGES

- Very good adhesion to most substrates
- Easy to use with excellent workability and thixotropic consistency, just add water
- Good bond strengths
- Non Toxic
- Weather and water resistance
- Suitable for indoor and outdoor applications
- High flexibility(can be used on facades

APPROVALS / CERTIFICATES

Improved cementitious adhesive with reduced slip and extended open time classified C2TE according to EN 12004.

PRODUCT INFORMATION

Composition	High quality cementitious mortar modified with polymers.
Packaging	25 Kg bag
Appearance / Colour	Grey, white
Shelf life	12 months minimum from date of production if stored properly in original unopened, sealed and undamaged packaging.
Storage conditions	Keep away from direct sunlight.
Density	Fresh mortar density: ~ 1.7 kg/l (at +25°C) (According toTS EN 12190)
Maximum grain size	0.4mm (According to TS EN 12192-1)
Tensile adhesion strength	Initial ≥ 1.0 N/mm² Water immersion ≥ 1.0 N/mm² (EN 1348)
Slip resistance	≤ 0.5 mm (EN 1308)
Mixing ratio	31-32 % or 7.75 - 8.0 litres clean water per 25 kg bag
Consumption	The consumption depends on the surface profile and roughness of the substrate and the placing technique (simple placing or back-back-"butter-ing"). One 25 kg bag will cover approximately 5 – 7 m2 .
Layer thickness	Minimum 1.5mm / Maximum 5mm
Ambient air temperature	Minimum: +5°C / Maximum: +35°C
Substrate temperature	Minimum: +5°C / Maximum: +35°C
Maturing time	Once the tiles are set into the mortar, they can be adjusted for up to approximately 30 minutes (at +25°C)
Open Time	≥ 0.5 N/mm² after 30 min (EN 1346)
Curing time	Applied Product ready for use (at +25°C-30°C) Before for jointing / grouting works — Wall: 7-8 hours; Floor: 24 hours Before opening to light foot traffic: Min. 24 hours Before opening to full traffic: Min. 14 days Values determined at laboratory conditions: 23 °C ± 2 °C. Higher temperatures will reduce the indicated waiting time, lower temperatures increase them.

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

Cementitious substrates must be strong enough for application of the tiles and the substrates should not continue to shrink
after the installation of the tile. Do not exceed the recommended water dosage. Apply only to sound, prepared substrates. Do not exceed maximum layer thicknesses. If additional waterproofing underneath the tiles is required, then the following products can be used: Sika Top® Seal-107, Sika Cemflex, etc. Refer to the relevant product data sheet for more information. Protect freshly applied material from rapid drying due to heat, wind etc. and from contact with water or other liquids before the mortar has hardened. It is not necessary to pre-dampen the tiles.

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

SUBSTRATE QUALITY / PRE-TREATMENT

- Substrates must be properly cured, structurally sound, free of any loose or friable particles, clean, dry and free of any contaminants such as dust, dirt,

oil, grease, cement laitance or efflorescence.
- Depending on the substrate condition and contaminants to be removed from the surface, perform adequate preparation techniques, such as water-jet washing or blastcleaning, in order to remove all traces of any materials that could reduce the product's adhesion to the substrate.
- Any small surface defects and variations in level, profile, or around exposed aggregates for example, can be prefilled and levelled with an additional layer of SikaCeram®-201, to a maximum thickness of 10 mm, applied at least 24 h before the ceramic tiling is laid. For larger and thicker areas of surface reprofiling and making good, appropriate mortars from the Sika MonoTop® or Sikafloor® Level range should be used. Cracks in substrates must be identified and sealed appropriately e.g. with Sikadur epoxy resins.
- When laying tiles on non-absorbent or substrates with limited absorbency, such as existing ceramic tiles, painted surfaces etc., check to confirm that these surfaces are all firmly and securely bonded and stable, then use suitable degreasing/descaling products to thoroughly and completely clean the surface.
- For applications in hot climates / environments and / 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).
- For tiling in frequently damp or wet rooms, then a suitable Sika® waterproofing product / system should be applied before the tiling.

MIXING

Add about 7.75 – 8.00 liters clean potable water to a 25 kg bag. Mix mechanically using a forced action mixer or slow speed drill (< 500 rpm) and mixing paddle for at least 3 minutes until a homogeneous mix, free of lumps is achieved. Do NOT use a normal free fall concrete mixer. Do not mix more material than can be used within the open time. Leave material to stand in mixing container until the majority of bubbles have dispersed (minimum 10 minutes). Then remix the material for 15 seconds – the product is now ready for use. If open time is exceeded or the adhesive dries prematurely, remove tiles and re-apply using fresh material.

APPLICATION

- Apply Sika®Ceram-201 at 1.5 - 5 mm thickness directly to the concrete substrate, using a notched trowel and spread the mortar evenly over the area to be tiled.
- Cover only an area that can be tiled within 15 - 30 minutes.
- Apply with 3mm “V”-notched trowels for small tiles(5*5cm). 6mm “V”-notched trowels for normal tiles(Less than 200*200).
- Apply with 9mm square notched trowel for bigger tiles.
- And for tile larger than 300*300 or highest performance requirements, back-buttering technique for bedding should be used.
- Press tiles firmly into the mortar with a twisting action to ensure optimum adhesion.

CLEANING OF EQUIPMENT

Clean all equipment and tools with water immediately after use. Dry hardened material can be removed mechanically

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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