

PRODUCT DATA SHEET

SikaCeram[®]-205 Large

TILE ADHESIVE FOR LARGE SIZED CERAMIC TILES

DESCRIPTION

SikaCeram[®]-205 Large is a cement-based improved powder adhesive for large sized ceramic tiles. It can be used in layers up to 10 mm thick. SikaCeram[®]-205 Large is suitable for all kinds of tiles for inside and outside application for residential and medium load areas. EN 12004 class C2 TE.

USES

SikaCeram[®]-205 Large is suitable for bonding the following types of tiles:

- All kinds of ceramic tiles

SikaCeram[®]-205 Large can be used indoors and outdoors on floor and wall applications, on the following substrate surfaces:

- Gypsum- and cement based substrates
- Plasterboards
- Existing ceramic tiles, stones, paints in indoors
- Existing PVC sheet, linoleum and vinyl tiled floors in indoors

SikaCeram[®]-205 Large is suitable for high performance and demanding applications, such as:

- Swimming pools
- Facades
- Heating floors, water systems
- Terraces and balconies
- Spot-gluing insulating panels made of polystyrene, polyurethane foam, rock or glass wool

CHARACTERISTICS / ADVANTAGES

- No vertical slipping
- Extended open time
- Frost resistant
- Suitable for large ceramic tiles

SUSTAINABILITY

VOC emission classification according to French regulation classification A+.

APPROVALS / CERTIFICATES

Improved cementitious adhesive with reduced slip and extended open time classified C2TE according to EN 12004:2007. Declaration of Performance n. 20609518, assessed by notified laboratory 1599, and provided with the CE marking.

PRODUCT INFORMATION

Composition	Portland cement, selected aggregates, water retention additives, re-dispersible polymer
Packaging	25 kg bag
Appearance / Colour	Grey powder
Shelf life	12 months from date of production.

Storage conditions Undamaged original sealed packaging, in dry and cool conditions.

Maximum Grain Size D_{max}: 0.5 mm

TECHNICAL INFORMATION

Tensile Adhesion Strength	Initial	≥ 1.0 N/mm ²	(EN 1348)
	Water immersion	≥ 1.0 N/mm ²	
	Heat ageing	≥ 1.0 N/mm ²	
	Freeze-Thaw cycles	≥ 1.0 N/mm ²	

Slip Resistance ≤ 0.5 mm (EN 1308)
All data collected from test reports released by laboratory Modena Centro Prove, Notified Body 1599.

SYSTEMS

APPLICATION INFORMATION

Mixing Ratio 7.5 litres of water per 25 kg bag
30 % ± 1 %

Fresh Mortar Density ~1.6 kg/l

Consumption Consumption is always dependent on the substrate surface profile and roughness, as well as on the application technique (single adhesive layer on the substrate, or with an additional 'buttering' layer on the back of the tiles). As a guide:

Size of tiles	Notched trowel size	Consumption
Small	6 mm	~2.5 kg/m ²
Medium	8 mm	~3.5 kg/m ²
Large	10 mm	~5 kg/m ²

Layer Thickness 10 mm max.

Ambient Air Temperature +5 °C min. / +35 °C max.

Substrate Temperature +5 °C min. / +35 °C max.

Maturing Time ~3 min

Pot Life ~6 hours

Open Time ≥ 0.5 N/mm² after 30 min (EN 1346)

Adjustability Time ~50 min

Curing Time 24–36 hours

Curing Treatment Protect from adverse weather conditions, such as extremely high or low (freezing) temperatures, rain, direct exposure to sun, for at least 12–24 hours from application.

Applied Product Ready for Use	Use	Waiting time
	Grouting on floors / walkability	24–36 hours
	Grouting on walls	4–6 hours
	Full surface traffic / use	~14 days
	Filling with water	~21 days

Values determined at laboratory conditions: 23 °C ± 2 °C, R.H. 50 % ± 5 %. Higher temperatures will reduce the indicated waiting time, lower temperatures increase them.

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®-205 Large, 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

Pour the recommended amount of water into a suitable, clean mixing container. Whilst stirring slowly, slowly add the SikaCeram®-205 Large powder to the water and then mix thoroughly using a low speed (~500 rpm) electric mixer until a completely homogeneous and lump-free mix is achieved.

After mixing, leave the material to stand and 'mature' for a few minutes, and then briefly stir again immediately prior to application. The resulting mix has a very creamy consistency and is easy to apply and spread.

APPLICATION

- SikaCeram®-205 Large is applied using a notched trowel.
- Apply sufficient product to ensure complete 'wetting' of the back of the tiles.
- Tiling must to be carried out on freshly applied adhesive, applying adequate pressure to ensure complete and uniform contact with the adhesive and thus optimum bond. If a film is seen to form on the surface, the adhesive has been left for too long; should this happen, then immediately remove the adhesive layer with the trowels, discard this material and apply a fresh layer of SikaCeram®-205 Large adhesive.
- Avoid application in direct sunlight and/or strong wind / draughts.
- SikaCeram®-205 Large is specifically designed to be ideal for laying non-absorbent tiles up to 6400 cm² (e.g. 80×80 cm) indoors, and for tiles up to 3600 cm² (e.g. 60×60 cm) outdoors. Use additional mechanical clamps for tiles larger than 3600 cm² on facades. These values are valid for cementitious, non-heating substrates.
- To lay any tiles larger than 900 cm² (e.g. 30×30 cm), the double-layer 'buttering' technique is always recommended.

CLEANING OF EQUIPMENT

Thoroughly clean all tools and equipments with clean water before the product has set, preferably immediately after use. Once hardened the product can only be removed by mechanical means.

IMPORTANT CONSIDERATIONS

- Gypsum plaster substrates must have a maximum moisture content of 0.5 %.
- If a waterproofing layer is required under the tiles, then cement-based and acrylic-based systems are suitable for use under SikaCeram®-205 Large. Please refer to the respective Sika Product Data Sheets for more information.

SikaCeram®-205 Large must not be applied in the following situations:

- On metal and wood surfaces.
- On existing ceramic tiles outdoors.
- For any situations or applications not explicitly described in this Product Data Sheet.

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.

LOCAL RESTRICTIONS

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

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.

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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