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Product Data Sheet
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SikaCeram®-205 Large

Powder adhesive to lay large sized ceramic tiles, C2TE classified according to EN 12004.

Product Description	SikaCeram® -205 Large is a one-pack premixed adhesive consisting from high quality cements, selected silica/quartz sands and specific additives with a high polymer content. It is suitable for laying in swimming pools or high traffic areas.
Uses	■ Laying ceramic tiles of all types including porcelain ■ Laying marble and natural stone, as long as they are not affected by water ■ Laying on heated floor slabs ■ On indoor and outdoor areas ■ Suitable for over-tiling indoor applications on old tiles, without primer ■ Suitable for applications where high performance is required, i.e. pools, industrial areas, façades ■ On walls and floors ■ Spot-gluing insulating panels made of polystyrene, polyurethane foam, rock wool or glass wool
Advantages	■ No vertical slipping ■ Extended open time ■ Frost proof ■ One-pack ■ Can be applied up to 10 mm thickness ■ Can be applied on cement waterproofing mortars
Approvals / Standards	■ Sika Ceram® -205 Large has been tested as per SCAQMD Rule 1168' Result VOC Content 0 g/L

Product Data

Form	Powder.
Colour	Grey / White.
Packaging	25 kg bags.
Storage Condition	Store in a dry cool place.
Shelf Life	12 months from date of production if stored properly in original unopened packing.

Technical Data

Density (Bulk)	Approx.1.60 kg/l. for fresh mortar
PH of Mix	Approx. 12 ±1.
Adjustability Time	Approx. 50 minutes.
Pot Life	6 hours approx. for one bag*.
Open Time	Approx. 30 minutes
Hardening time	Trafficable: after 24-36 hours approx. Floor tiles: can be grouted after 24-36 hours * approx. Wall tiles: can be grouted after 4-6 hours * approx. Surface can be used after 14 days * approx. * Values achieved at room conditions: 23°C – R.H. 50%. Higher temperatures reduce the indicated times, lower temperatures increase them.
Bonding Strength	Approx. 1.2 N/mm^2 (after 28 days – ASTM C321) - (> 1.0 N/mm^2 Brick Failure).
Compressive Strength	Approx. 14.0 N/mm^2 (after 28 days).

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Consumption	The consumption depends on the kind and size of the tiles, roughness of the substrate and size of the trowel. We recommend the using the following trowel sizes on flat substrates: Trowel size — Consumption 6 mm — 3 kg/m² approx. 8 mm — 4 kg/m² approx. 10 mm — 5 kg/m² approx.

Application Conditions

Preparation of Substrate	SikaCeram® -205 Large is applied directly on plasters and cementitious substrates, cement-lime mortars, concrete, plasterboard, helicopter finished concrete and old ceramic floors. Sika Primer-11 W must first be applied on gypsum based or anhydrite substrates. Apply Sika Primer-21 W on PVC, linoleum and old vinyl floors. The substrate must be perfectly flat, rigid, tight and free from loose particles, and cured. Any small uneven areas can be levelled and filled with a layer of SikaCeram® -205 Large, in a maximum thickness of 5 mm, applied at least 24 hours before laying the ceramic coating. For greater thicknesses, the Sika Top or Sika Level mortar range should be used. The substrate must also be clean and free from dust, grease, oils and wax.
Mixing Ratio	Grey: 7.5 litres approx. of clean water per bag (30% ± 1%) White: 7.8 litres approx. of clean water per bag (31% ± 1%)
Mixing	Mix a 25 kg bag with the recommended amount of water in a clean bucket, using an electric mixer with a suitable mixing spiral at low speed until a smooth, lump-free paste is achieved. Use a max. 500 rpm mixer; do not mix at a faster rate as this will reduce the mechanical strength of the cured product. After mixing, leave the product to sit for 5-10 min., then briefly stir the mix prior to application. The resulting mix should be very creamy, easily spreadable, and highly thixotropic.
Application Temperature Range	From 5°C to 35°C.
Application	SikaCeram® -205 Large is applied using a notched trowel. The amount of product should be enough to ensure complete wetting of the tiles' rear. Tiling has to be carried out on fresh glue, exerting an adequate pressure to ensure contact with the adhesive. If a surface film has formed on the adhesive, it is necessary to wipe the trowel over the adhesive layer previously applied. Avoid wetting with water any adhesive already applied. SikaCeram® -205 Large is used for fixing absorbent tiles up to a maximum size of 3,600 cm2 (e.g. 60 x 60 cm) indoors, and 2100 cm2 (e.g. 30 x 60 or 45 x 45 cm) for outdoor paving. These limits are valid for cementitious, non-heated substrates. For any other kind of substrate, please contact the Sika technical department. For laying tiles equal or greater in size than 900 cm2 (e.g. 30 x 30 cm), the double spreading (buttering) technique of adhesive application is always recommended.
Cleaning	Clean tools and equipment immediately after use with water. Cured product can only be removed mechanically.
Waiting Time Before Grouting	For wall - after 7 to 8 hours (depending on temperature). For floor - after 24 hours.
Open to Full Traffic	After 14 days.

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Notes on Application / Limitations	SikaCeram® -205 Large must not be applied in the following situations: - On metal surfaces and wood - To achieve coats thicker than 10 mm - On old ceramics outdoors - For laying of ceramic tiles larger than 1,600 cm2 in size without mechanical fastening - At temperatures lower than + 5°C or higher than +35°C

Safety Instructions

Ecology	Do not dispose of into water or soil but according to local regulations.
Transport	Non-hazardous.
Safety Precautions	Wear gloves and gloves, In contact with eyes or skin product may cause irritation.
Toxicity	Non-Toxic under relevant health and safety codes.

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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