

Product Data Sheet

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SikaCeram®-105

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General Purpose, Cementitious Tile Adhesive

Product Description	SikaCeram®105 is a cementitious tile adhesive used for permanent fixing of tiles. Suitable for tropical and hot climatic conditions. Performance is in accordance with EN 12004: Classification - C1T class.
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Uses	Suitable for fixing: <ul style="list-style-type: none">▪ Wall and floor tiles.▪ Absorbing / non-absorbed tiles.▪ Interior uses.
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Characteristics / Advantages	<ul style="list-style-type: none">▪ Easy to use, just add water.▪ Excellent workability.▪ Excellent pot life.▪ Can be applied directly on cement screeds, concrete or lime mortars.▪ Non-Toxic.
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Product Information

Composition	Cementitious powder, Polymer modified binder.
Packaging	25 kg bag
Appearance / Colour	Powder
Shelf Life	12 months minimum from production date if stored properly in original unopened, sealed and undamaged packaging.
Storage Conditions	Store in a dry area between 5°C and 35°C. Protect from direct sunlight.

Technical Information

Tensile Adhesion Strength	> 0.5 MPa
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Application Information

Mixing Ratio	Mixing Water 26% - 28% or 6.5kg to 7kg for 25kg product
Consumption	The consumption is 3 – 6 kg/m ² depending on <ul style="list-style-type: none">- the substrate (flatness, roughness)- the tiles type (size, thickness, water absorption, porosity)- gluing method (simple or double)

Construction



Ambient Air Temperature	5°C min. / +35°C max. (Substrate)
Open Time	Approximately 20 minutes at 20°C.

Application Instructions

Substrate Quality / Pre-Treatment	Concrete, mortar and masonry surfaces must be clean, free from grease, oil and loosely adhering particles. Suitable mechanical methods such as abrasive blast cleaning; high pressure water jetting at sufficient pressure (minimum 150 bars) and volume; scabbling or needle gunning. On "new" or smooth faced concrete, surfaces as should be Sand-blasted. All surfaces must be as true and flat as possible. Blow holes and irregularities should be filled with suitable SikaTop / Monotop products. Saturate absorbent concrete surfaces thoroughly with water to achieve a surface saturated dry (SSD) condition.
Mixing	Add about 6.5 – 7 litres clean water to a clean suitable mixing container. Slowly add the SikaCeram® 105 powder and mix for at least 3 minutes until a homogeneous mix free of lumps is achieved. Do not mix more SikaCeram® 105 than can be used within the open time. Do not add extra water or other ingredients after mixing!
Application	Apply SikaCeram® 105 at 3 -10 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 – 20 minutes. Press tiles firmly into SikaCeram® 105 with a twisting action to ensure optimum adhesion. <ol style="list-style-type: none"> 1. Use 6.5 - 7 litres of clean water per 25kg bag. 2. Mix well with a slow speed drill (maximum 500rpm). 3. Apply with "V"-notched trowels for small tiles. 4. Apply with square notched trowel for bigger tiles. 5. Place the tiles firmly into the fresh adhesive.
Cleaning of Equipment	Application and mixing tools should be cleaned with water while material is still fresh. Hardened material can only be removed mechanically.
Important Considerations	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. Remarks SikaCeram® 105 should not be used directly on gypsum or gypsum board substances. Contact our Technical Service Department for advice.
Basis of Product Data	All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.
Local Restrictions	Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.
Ecology, Health And Safety	
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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