

Sika® Ceram-100

General Purpose, Non-shrink Cementitious White Tile Adhesive

Product Description Sika® Ceram-100 is a cementitious, non shrink, polymer containing, thin bed tile adhesive used for permanent fixing of tiles. Suitable for tropical and hot climatic conditions

Uses Sika® Ceram-100 is suitable for fixing:

- Wall and floor tiles
- Insulation and acoustic tiles
- Marble and terrazzo tiles
- Mosaics

Advantages

- High bond strengths
- Easy to use, just add water
- Excellent workability
- Excellent pot life
- Can be applied directly on cement screeds, concrete or lime mortars
- Non Toxic
- Suitable for indoor and outdoor application

Product Data

Type	Cementitious powder
Form	White Powder
Packaging	20 kg bags
Storage Condition	In a dry area between 5°C and 40°C. Protect from direct sunlight
Shelf life	12 months minimum from production date if stored properly in original unopened packaging

Technical Data

Mixing ratio	Add 24 -26 % cold, clean water by weight of powder or 4.8 – 5.2 liters per 20 kg bag
Pot life	Approximately 60 minutes at 30°C
Open Time	Approximately 30 minutes at 25°C (Skinning Wacker Method)
Density	Fresh mortar - Approximately 1.90 kg/ltr
Mechanical Strengths (28 day)	Compressive strength - approximately 20 N/mm ² Adhesive strength - approximately 1.5 N/mm ²
Coverage	One 20 kg bag will cover approximately 4.5 – 6.6 m ² at 2 - 3 mm thickness



Temperature	Minimum 5°C, Maximum 40°C (substrate)
Application Details	
Substrate preparation	<p>Concrete, mortar and masonry</p> <p>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 bar) and volume; scabbling or needle gunning . On “new” or smooth faced concrete, surfaces 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.</p> <p>Saturate absorbent concrete surfaces thoroughly with water to achieve a surface saturated dry (SSD) condition.</p>
Mixing	<p>Add about 4.8 – 5.2 litres clean, cold water to a clean, suitable mixing container. Slowly add the Sika® Ceram-100 powder and mix for at least 3 minutes until a homogeneous mix, free of lumps is achieved. Do not mix more Sika® Ceram-100 than can be used within the open time.</p> <p>Do not add extra water or other ingredients after mixing!</p>
Application	<p>Apply Sika® Ceram-100 at 2 - 3 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.</p> <p>Press tiles firmly into Sika® Ceram-100 with a twisting action to ensure optimum adhesion.</p> <ol style="list-style-type: none"> 1. Use 4-4.5 liters of clean water per 20 kg bag 2. Mix well with a hand trowel. For large volume mixing use 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
Curing	Where ambient conditions may lead to rapid surface drying, the use of light water fogging for 48 hrs, hessian or suitable water based curing compound is recommended. Do not commence fogging until final set has been reached.
Cleaning	Application and mixing tools should be cleaned with water while material is still fresh. Hardened material can only be removed mechanically.
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.
Remarks	Sika® Ceram-100 should not be used directly on gypsum or gypsum board substances. Contact our Technical Service Department for advice.
Safety	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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