

PRODUCT DATA SHEET

SikaCeram[®]-90 PK

General Purpose, Non-Shrink Cementitious Tile Adhesive

DESCRIPTION

SikaCeram[®]-90 PK 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

SikaCeram[®]-90 PK is suitable for fixing:

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

CHARACTERISTICS / ADVANTAGES

SikaCeram[®]-90 PK has following characteristics and 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

APPROVALS / STANDARDS

SikaCeram[®]-90 PK complies with the EN 12004-1/2.

PRODUCT INFORMATION

Chemical Base	Cementitious Powder
Packaging	20 kg & 40 kg bag
Shelf Life	6 months minimum from production date
Storage Conditions	Store in a dry, undamaged, unopened, original sealed bags, protected from direct sunlight and frost, at temperature between +5 °C and 35 °C.
Appearance / Colour	Grey Powder
Maximum Grain Size	Dmax: 0.8 mm less than 1%
Total Chloride Ion Content	Nil

APPLICATION INFORMATION

Mixing Ratio	Add 24-26% cold, clean water by weight of powder or 4.8-5.2 liters per 20kg bag.
Fresh mortar density	Approximately 1.90 kg/ltr
Layer Thickness	One 20 kg bag will cover approximately 4.5 – 6.6 m ² at 2-3 mm

	thickness
Ambient Air Temperature	Minimum 5°C, Maximum 40°C
Substrate Temperature	Minimum 5°C, Maximum 40°C
Pot Life	Approximately 60 minutes at 30°C.
Open Time	Approximately 30 minutes at 25°C

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.

LIMITATIONS

All technical and mixing tools should be cleaned with water while material is still fresh. Hardened material can only be removed mechanically. SikaCeram®-90 PK should not be used directly on gypsum or gypsum board substances. Contact our technical service department for advice.

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 PREPARATION

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 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.
Substrate absorbent concrete surfaces thoroughly with water to achieve a surface saturated dry (SSD) condition.

MIXING

For 20 kg Bag add about 4.8 – 5.2 liters clean, cold water to a clean, suitable mixing container. Slowly add the SikaCeram®-90 PK powder and mix for at least 3 minutes until a homogeneous mix, free of lumps is achieved. Do not mix more SikaCeram®-90 PK than can be used within the open time.
Do not add extra water or other ingredients after

mixing.

APPLICATION

Apply SikaCeram®-90 PK 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.

Press tiles firmly into SikaCeram®-90 PK with a twisting action to ensure optimum adhesion.

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 TREATMENT

Where ambient conditions may lead to rapid surface drying, the use of light water fogging for 48hrs, hessian or suitable water-based curing compound is recommended. Do not commence fogging until final set has been reached.

CLEANING OF TOOLS

Application and mixing tools should be cleaned with water while material is still fresh. Hardened material can only be removed mechanically.

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.

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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