

PRODUCT DATA SHEET

SikaCeram[®]-450 H

Quick-drying anti-cracking self-levelling floor screed

DESCRIPTION

SikaCeram[®]-450 H consists of high-quality special cement, fine aggregates, anti-cracking components and a variety of additives, the product has good mobility, automatic levelling off the floor, easy to operate, saving manpower. The thickness of one-time construction can be up to 40 mm, at room temperature, it can be manned in 4 hours, and the next process can be carried out in 24 hours at the earliest. Shorten the working period and save space.

USES

- Concrete, cement mortar and other substrates.
- Levelling of indoor floors in homes, offices and public buildings.
- Levelling of substrates for laying tiles, wooden floors and carpets.

CHARACTERISTICS / ADVANTAGES

- A construction thickness of 5–40 mm.
- Excellent fluidity, no water seepage layer.
- Convenient and efficient, fast drying and early strength.
- High bonding strength, no drumming and shedding.
- High compressive strength, good anti-cracking effect.
- Green material, health and environmental protection.

APPROVALS / STANDARDS

JC/T 985-2017 Cement-based self-levelling mortar for floors SL U C20F4

PRODUCT INFORMATION

Composition	Polymer modified cement mortar		
Packaging	20 kg bag		
Appearance / Colour	Grey powder		
Shelf Life	12 months from date of production		
Storage Conditions	Store unopened product in a dry, cool, ventilated place		

TECHNICAL INFORMATION

Resistance to Impact	No cracking or detachment from the base plate		(JC/T 985)
Compressive Strength	24 h	≥ 6.0 MPa	(JC/T 985)
Long Term Compression Strength	28 d	≥ 20.0 MPa	(JC/T 985)
Tensile Strength in Flexure	24 h	≥ 2.0 MPa	(JC/T 985)
	28 d	≥ 4.0 MPa	

Shrinkage	-0.15 / +0.15	(JC/T 985)
Dimensional Stability	-0.15 / +0.15	(JC/T 985)

APPLICATION INFORMATION

Mixing Ratio	Approximately 4.5 L of water per 20 kg bag
Layer Thickness	5–40 mm
Substrate Temperature	+5 °C min. / +35 °C max.

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.

IMPORTANT CONSIDERATIONS

- Applications of SikaCeram®-450 H which are too thin can result in a chalky or dusty finish that is unsuitable for painting or subsequent applications.
- Applications of SikaCeram®-450 H on very porous or dry substrates can result in a chalky or dusty finish that is unsuitable for painting or subsequent applications.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

The substrate must be sound, clean, dry and free of all contaminants e.g. dirt, oils, grease, coatings, surface treatments, etc. If in doubt, apply a test area first. Dry and pourous substrates should be dampened before application of SikaCeram®-450 H.

MIXING

SikaCeram®-450 H must be mixed with clean water using a hand-held or mechanical mixer for 3–7 minutes until a homogenous lump-free paste is achieved. The wet mix should be use within 30–45 minutes after mixing.

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APPLICATION

Apply SikaCeram®-450 H onto moist, clean substrate using a wooden/steel float or steel trowel while the mix is still workable. It can be applied at a recommended thickness of 5–40 mm. SikaCeram®-450 H should be cured for at least 7 days prior to any tiling works.

CLEANING OF TOOLS

Clean all tools and application equipment with water immediately after use. Hardened or cured 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.

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