

PRODUCT DATA SHEET

SikaCeram[®]-450 H

Quick drying cementitious self-levelling screed

DESCRIPTION

SikaCeram[®]-450 H consists of high-quality special cement, fine aggregates and variety of special additives. SikaCeram[®]-450 H has good flowability, self-levelling off the floor. It is easy to operate, thickness of one-time application can be up to 40mm. Open for foot traffic in 4 hours at room temperature, can be carried out the next topcoat materials such as carpet, tiles, vinyl floorings in 24 hours at the earliest.

USES

Levelling floor screed for the installation of :

- Tiles
- Wooden floors
- Carpets
- Vinyl floors

CHARACTERISTICS / ADVANTAGES

- Application thickness of 5-40mm.
- Excellent flowability
- Convenient and efficient, fast drying and early strength
- High bonding strength

APPROVALS / STANDARDS

EN 13813-CT-C30-F7-B2.0

PRODUCT INFORMATION

Chemical Base	Polymer Modified Cement Mortar		
Packaging	20kg/bag		
Appearance / Colour	Grey Powder		
Shelf Life	12 Months		
Storage Conditions	Store unopened product in a dry, cool, ventilated place		

TECHNICAL INFORMATION

Compressive Strength	$\geq 10 \text{ N/mm}^2$	1 day	BS EN13892-2
	$\geq 20 \text{ N/mm}^2$	7 days	
	$\geq 30 \text{ N/mm}^2$	28 days	
Tensile Strength in Flexure	$\geq 3.0 \text{ N/mm}^2$	1 day	BS EN13892-2
	$\geq 5.0 \text{ N/mm}^2$	7 days	
	$\geq 7.0 \text{ N/mm}^2$	28 days	

Shrinkage	≤ 0.03%	28 days	BS EN13454-2
Tensile Adhesion Strength	≥ 1.5 MPa	28 days	BS EN13892-8
Flow Rate	≥ 140 mm		BS EN12706

APPLICATION INFORMATION

Mixing Ratio	Approximately 4.3L of water per 20kg bag
Yield	Approx.12.5 litres, suitable for 2.5 m ² per bag @ 5 mm thickness
Layer Thickness	5-40mm
Substrate Temperature	+5 °C min /+35 °C max

SYSTEM INFORMATION

System Structure	Primer:	light porous concrete surface: Ron-afix® mixed with water at ratio 1:3 high porous concrete surface: Sikadur®-732
	Leveling:	SikaCeram®-450 H

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

- Applications of Sikaceram-450H which are too thin can result in a chalky or dusty finish that is unsuitable for painting or subsequent applications.
- Applications of Sikaceram-450H 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

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 QUALITY / PRE-TREATMENT

The substrate must be sound and of sufficient compressive strength(min. 25N/mm²) with a minimum pull off strength of 1.5N/mm². The surface must be 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 is mixed with the specified quantity

of clean, portable water using the appropriate forced action mixer or pump equipment. For hand mixing the material should be mixed with a low or medium speed drill and paddle for 2-5 minutes and until free from lumps. The material should then be left for 5 minutes and briefly remixed for 30 seconds before being poured into place. The mixed material should be use within 30 minutes.

APPLICATION

After pouring or pumping the mixed material onto the primed substrate the material should be levelled to the desired thickness using a pin leveler, squeegee, notched trowel or similar. Subsequent mixes should be applied onto a wet edge and similarly levelled. Use the equipment to move the material into corners, low spots and around fittings. As soon as the level has been achieved and before the material starts to lose workability use a spiked roller to help any trapped air travel to the surface. Failure to do this will result in pinholes and blemishes in the surface.

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 recommenda-

tions 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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