

PRODUCT DATA SHEET

SikaScreed® Binder

Cementitious binder for producing quick drying screeds.

DESCRIPTION

SikaScreed® Binder is a cementitious binder based on hydraulic binders and special additives to replace cement in conventional aggregate based floor screeds. It provides quick drying indoor and outdoor cementitious screeds with high strength and low shrinkage. Ideal for laying ceramic tiles, natural stones, wood flooring, resilient floor materials and embedding heated screed components.

USES

- Formation of unbonded 40 to 60 mm thick screeds in residential or industrial environments
- Formation of bonded 12 mm to 60 mm thick screeds
- Bonded, unbonded and floating screeds
- Embedding heated screed components

CHARACTERISTICS / ADVANTAGES

- Quick drying
- Very low shrinkage
- Very good finishing
- High strength

PRODUCT INFORMATION

Packaging	20 kg bags.
Appearance / Colour	Grey powder
Shelf Life	12 months from date of production
Storage Conditions	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +25 °C. Always refer to packaging.

TECHNICAL INFORMATION

Compressive Strength	24 hours	$\geq 7.5 \text{ N/mm}^2$	(EN 13892-2)
	28 days	$\geq 25 \text{ N/mm}^2$	
Based on: 20 kg binder + 9.6 L water + 80 kg aggregate			
Flexural Strength	24 hours	$\geq 2.5 \text{ N/mm}^2$	(EN 13892-2)
	28 days	$\geq 6 \text{ N/mm}^2$	
Based on: 20 kg binder + 9.6 L water + 80 kg aggregate			

APPLICATION INFORMATION

Mixing Ratio	SikaScreed® Binder:	20 kg
	Aggregate (0-8 mm):	80 kg
	Water (maximum, depending on moisture content of aggregate):	9.6 L
Consumption	3.2 - 4.0 kg/m ² per cm of screed thickness	
Layer Thickness	▪ Unbonded: 40 to 60 mm ▪ Bonded: 12 to 60 mm	
Ambient Air Temperature	+5 °C min./ +25 °C max.	
Substrate Temperature	+5 °C min./ +25 °C max.	
Pot Life	~1 hour	
Waiting Time / Overcoating	Walkable	~12 hours ¹
	Laying of ceramic tiles	~24 hours ¹
	natural stone or marble	~48–72 hours ²
	Laying of wood flooring or resilient floors	~7 days ³
	<small>1 Times measured at +23 °C 50 % r.h</small>	
	<small>2 Stones and marble sensitive to humidity, time must be extended to 7 days.</small>	
	<small>3 Times measured at +23 °C 50 % r.h, screed thickness ≤ 5 cm, ventilation ≥ 2 m/sec.</small>	

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

- Before laying wood flooring or resilient floors, check with a carbide hygrometer to ensure screed relative humidity is < 2 % or as recommended by flooring manufacturer.
- Do not use product if it becomes difficult to apply. Prepare a fresh mixture.
- Do not add extra water than recommended.
- Do not add other binders to the product (cement, lime, gypsum, etc.).
- If the tiles are fixed within a short time (24 hours), the gap between adjacent tiles must be at least 3–4 mm.
- Do not apply at temperatures lower than 5 °C or higher than 30 °C.
- Protect from direct sunlight, strong wind and extreme temperatures.
- To prevent cracking in screed, reduce the amount of water used for finishing and start curing immediately after finishing.

ECOLOGY HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users must refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

Substrates must be prepared in the same way as conventional cementitious screeds depending on the type of screed required i.e. bonded, unbonded, floating and heated. Ancillary works such as placing materials to form isolation and crack control joints, thermal insulation etc. must be incorporated the same as a conventional cementitious screed. National building standards must also be consulted to ensure compliance.

MIXING

Aggregate

Clean and dry

Wood flooring and resilient materials: Aggregate size 0.1–8 mm, 400 kg/m³

All tile types or natural stones: Aggregate size 0.1–6 mm, 320 kg/m³

Mixing

Prepare the correct quantities of SikaScreed® Binder, aggregate and water to suit the type of screed and flooring to be laid.

Mix binder with aggregate and water using an ordinary concrete mixer, forced action mixer, pan mixer, Turbosol type screw mixer or other suitable equipment to achieve a plastic, highly workable paste.

APPLICATION

Application

Apply mixed screed in the same way and with the same equipment as a conventional screed.

Finishing

Float finish with conventional manual or machine applied equipment within 60 minutes after spreading. To

increase speed, surface of the screed can be splashed with water from a brush. A screed surface to receive wood flooring can have a rough texture to improve adhesion.

Curing

Cure floated screed in the same way as a conventional screed.

CLEANING OF TOOLS

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