

## PRODUCT DATA SHEET

# Sikafloor®-50 Screed

Cementitious, Fiber-Reinforced, Rapid Hardening, Polishable, Floor Levelling Mortar

### DESCRIPTION

Sikafloor®-50 Screed is a two-component, levelling screed mortar, polymer modified, rapid load bearing, over-coat able and suitable for industrial grade.

### USES

Sikafloor®-50 Screed is a multi-use and durable cementitious screed typical uses are in airports, warehouses, factories, manufacturing facilities, hospitals, commercial buildings, Schools, Restaurants, even residential and domestic areas, etc.

- For “weekend” floor repairs (DIY).
- Coat able levelling mortar for Sikafloor® resin-based flooring systems.
- Repair the concrete level of water puddles.
- Levels and renovates old floors.
- Underlay for resin flooring, tiles and sheet systems.

### CHARACTERISTICS / ADVANTAGES

- Soft flow consistency.
- Pumpable or manual pour application.
- Leveling at variable thickness.
- External and internal uses.
- Non – tacky and can also be laid as Monolithic floor finish.
- High dynamic load bearing floor levelling.
- Low odor.

### APPROVALS / CERTIFICATES

Cement based screed CT-C45 according to EN 13813

### PRODUCT INFORMATION

<b>Composition</b>	Portland cement, selected aggregates, special additives.
<b>Packaging</b>	Two-component product (Total 28.3 kg) 1. Comp. A ( Liquid ) 3.3 kg Pail 2. Comp. B ( Powder ) 25 kg Bag
<b>Shelf life</b>	12 months from date of production if stored properly in undamaged unopened, original sealed packaging.
<b>Storage conditions</b>	In dry conditions at temperatures between +5°C and +35°C. Protect from direct sunlight.
<b>Appearance and colour</b>	Grey
<b>Maximum grain size</b>	Dmax : 2mm

# TECHNICAL INFORMATION

Compressive strength	Time	Temperature	Value	(EN 12390-3)
	24 hours	+25 °C	> 25 N/mm <sup>2</sup>	
	7 days	+25 °C	> 40 N/mm <sup>2</sup>	
	28 days	+25 °C	> 45 N/mm <sup>2</sup>	

## SYSTEM INFORMATION

<b>System structure</b>	<b>Priming Layer</b> : be sure as bonding agent -wet on wet method- is mandatory between the primer and Sikafloor®-50 Screed 1. Sikafloor®161 or 2. ( Sika Latex + Portland Cement + SikaDur-507 ) by volume 1:1:1 <b>Levelling Layer</b> : apply Sikafloor®-50 Screed product according to required thickness.
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## APPLICATION INFORMATION

<b>Fresh mortar density</b>	~ 2,22 kg/l
<b>Consumption</b>	2.22 kg/m <sup>2</sup> /mm for fresh mortar (12.75 L . for set).
<b>Layer thickness</b>	minimum 5 mm maximum 150 mm
<b>Material temperature</b>	Fresh mortar temperature at least +20°C, maximum +35°C
<b>Ambient air temperature</b>	minimum +5°C / maximum +35C
<b>Substrate temperature</b>	minimum +5°C / maximum +35°C
<b>Pot Life</b>	20 minutes at +25°C Note : Lower or higher material and substrate temperature will affect the pot life .

## 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

- Never mix Sikafloor®-50 Screed with Portland cement or other binders.
- Protect from external factors like Hot or strong winds and extremes of temperature, low humidity , etc. to avoid cracking or crazing, these are not causes for a claim.
- Opened bags have to be used immediately. Storage must be protected from moisture. Moisture can have a negative affect for the reactivity, before end of the shelf life.
- Do not exceed the recommended A-component (Liquid) dosage.
- Temperatures below +20°C extend the drying times.
- Do not use Sikafloor®-50 Screed in areas where it can be exposed to dampness, such as underground floors without an effective damp proof membrane.
- make sure that the bonding material must be fresh ( not dry) during screed product casting ( wet on wet method ) .
- if the layer thickness exceeds 80mm, a light rein-

forcement should use .

- when overcoating Sikafloor®-50 Screed with Sikafloor resins Products ensure the moisture content has achieved the required value for the coating product, its recommended to use TRAMEX device for moisture detection (refer to the coat product PDS), If moisture content of screed is >4% pbw use Sikafloor -81 EpoCem.

## 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

### SURFACE PREPARATION

- Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface.
- Weak concrete must be removed and surface defects such as blow holes and voids must be fully exposed. Repairs to the substrate, filling of blowholes / voids.

- All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum.
- Prime the substrate using the Sika primers products range.

### SUBSTRATE QUALITY / PRE-TREATMENT

The concrete substrate must be sound and sufficient compressive strength (min. 25 N/mm<sup>2</sup> ) with a minimum pull off strength of 1.5 N/mm<sup>2</sup> . The surface must be clean, dry and free of all contaminants e.g. dirt, oils, grease, coatings and surface treatments etc. If in doubt apply a test area first.

### MIXING

- Pour Sikafloor®-50 Screed liquid into a suitable size mixing container.
- Add the dry powder into mixing container gradually while agitating the mixture.
- Continue agitate the mixture for minimum 2 to 3 minutes and wait for another 1 to 2 minutes in order to insure full activation of the product.
- To achieve the required consistency you can use **(3.2kg - 3.3kg)** per 25kg bag.

### APPLICATION

- Apply the freshly mixed system bonding agent on the concrete substrate with a stiff brush or level with a squeegee and roll it afterwards.
- Mix Sikafloor®-50 Screed in a suitable mixer and apply on the Sikafloor®-161 or SikaLatex®-IQ bonding agent 'wet on wet' and, finish Sikafloor®-50 Screed with suitable trowels or floats.

**Don't forget curing!** Curing must start immediately after the last finishing operation, using polyethylene sheet or application of Sika® Antisol® WB IQ in drafty areas, open spaces, at temperatures and at a dry climate .

### APPLICATION METHOD / TOOLS

Use a low speed electric stirrer (<500 rpm).

### LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product 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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#### PRODUCT DATA SHEET

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