

## PRODUCT DATA SHEET

# Sikafloor®-125 Level Flex

SELF LEVELLING COMPOUND WITH ADDED POLYMER POWDER.

## PRODUCT DESCRIPTION

Sikafloor®-125 Level Flex is a 1-part, ready to use latex modified smoothing and levelling compound for advanced flexibility and resilience. It is suitable for smoothing and levelling uneven, rigid internal floors prior to applying final wearing coverings.

## USES

Levelling/smoothing

- Concrete.
- Sand/cement screeds (not anhydrite).
- Quarry tiles, terrazzo, ceramic tiles.
- Underfloor heating applications beneath heating cables/pipes.

## PRODUCT INFORMATION

<b>Chemical Base</b>	Cement and aggregate based.
<b>Packaging</b>	20 kg Bag.
<b>Colour</b>	Grey Powder.
<b>Shelf Life</b>	9 months from date of manufacture if stored correctly.
<b>Storage Conditions</b>	Store properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +35 °C.
<b>Density</b>	2.03 kg/L ± 0.03 (fresh mortar).
<b>Compressive Strength</b>	> 25 N/mm <sup>2</sup> (after 28 days / +20 °C) (EN 13892-2).
<b>Flexural Strength</b>	F6 N/mm <sup>2</sup> (after 28 days / +20 °C) (EN 13892-2).
<b>Thermal Compatibility</b>	Suitable for use with underfloor heating systems (not for embedment).
<b>Reaction to Fire</b>	A1 <sub>fl</sub>

## CHARACTERISTICS / ADVANTAGES

- Flexible, self-smoothing and highly fluid.
- Low shrinkage.
- Easy to apply by pump or manual application.
- 2–4 hours walk on time (+20 °C).
- Can be overlaid in approx. 8 hours (+20 °C).
- Maintains good workability and joint healing.
- Good surface appearance and hardness.
- Protein and formaldehyde free.

## APPROVALS / STANDARDS

Meets the requirements of EN 13813 class CT-C25-F6.

## APPLICATION INFORMATION

<b>Consumption</b>	20 kg will cover approx. 4 m <sup>2</sup> at 3 mm thickness. This figure may vary due to surface area, porosity, surface profile, variations in level or wastage etc.
<b>Layer Thickness</b>	Featheredge to 6 mm.
<b>Relative Air Humidity</b>	< 75% max.
<b>Substrate Temperature</b>	+5 °C min / +35 °C max.
<b>Pot Life</b>	20 minutes in conditions of +23 °C / 50% r.h. The temperature will affect the pot life. Application at temperatures above +23 °C will reduce the pot life and the working time. Temperatures below +23 °C will increase the pot life and extend the working time.
<b>Waiting Time / Overcoating</b>	At +20 °C and 50% relative humidity: Foot traffic 2-4 hours. Cover ~8 hours. Times are approximate and at +23 °C and 50% r.h. and thus will be affected by changing substrate and ambient conditions, particularly the temperature and relative humidity. When overcoating Sikafloor®-125 Level Flex always ensure the moisture content has achieved the required value for the coating product, as the waiting time will vary with the application thickness and ambient humidity (refer to the top coat product data sheet).
<b>Applied Product Ready for Use</b>	Lightly serviceable ~ 24 hours. Fully serviceable ~ 7 days. Note: Times are approximate and will be affected by changing substrate and ambient conditions, particularly the temperature and relative humidity.

## VALUE BASE

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## LIMITATIONS

- Sikafloor®-125 Level Flex is not designed as a final wearing surface and must be covered with a floor covering.
- Do not use for embedding underfloor heating systems.
- Freshly applied Sikafloor®-125 Level Flex must be protected from damp, condensation and water for at least 24 hours.
- Not to be used on flexible or unstable substrates.
- Do not use over large areas of timber flooring/floating floors, vinyl coverings, insulation /building boards, anhydrite screeds, asphalt or bitumen substrates etc.
- Do not exceed the recommended thickness.
- For internal use only - do not use externally.
- Do not use on floors with rising damp.
- Do not use as a DPM.
- Suitable for foot traffic only.
- Not suitable for slopes or inclines > 0.5 %.
- Do not exceed the recommended water dosage or add more water when the product is starting to set.
- Always add Sikafloor®-125 Level Flex to water, not the other way around.
- Do not mix with other cements / cement based

screeds or anhydrite screeds.

- Very absorbent substrates must be saturated with water or primed, to prevent loss of the mixing water into the substrate which can then cause problems such as shrinkage, appearance of surface pores, or weak and dusty surfaces etc.
- Small superficial hairline cracking or crazing is a normal occurrence under these conditions, and do not constitute a reason for claims.
- When overcoating with SikaCeram®, Sikabond® adhesives or Sikafloor® resins, additional mechanical preparation may be required to remove any cement laitance.

## 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.

## SUBSTRATE QUALITY

The concrete/screed should be at least 28 days old. The surface must be dry, clean, structurally sound and possess an effective damp proof membrane. The surface should be free from residual adhesives, oil, grease, wax, loose flaky paint, dust, laitance etc. that could reduce adhesion. Beware of condensation - the substrate and screed floor must be at least 3 °C above dew point to reduce the risk of condensation, bloom-

ing or cement laitance on the floor finish. Switch off underfloor heating 24 hours before, and for 24 hours after, application. Ensure floor temperature is >+5 °C. If in doubt apply a test area first.

## SUBSTRATE PREPARATION

### PRIMING

Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed. Repairs to the substrate must be carried out using appropriate products such as Sika® concrete repair mortars. Suitable for small areas of interior timber floors only - timber floors must be securely screwed down at 300 mm centres. In all cases, apply SikaBond® PVA+ to the floor at a 1: 0.5 dilution with water and allow to become tacky before applying levelling compound. Please note: We recommend the use of Sikafloor®-440 Fibre Reinforced for use over large areas of internal timber floors. For further substrate advice, please contact Sika Technical Department.

### Normal Absorbent Concrete/Screed

These substrates do not normally require priming. Damp down floor with clean water without leaving puddles and allow to surface dry. If water is absorbed immediately into substrate, treat as porous surface.

### Porous Concrete/Screed

All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum. Seal surface with SikaBond® PVA+ (1 part PVA to 4 parts clean water) ensuring surface is well coated, then allow to dry. For highly porous substrates it may be necessary to apply more than one coat to prevent pinholes and cracking/debonding of Sikafloor®-125 Level Flex.

### Non Porous/Dense Substrates (quarry/ceramic tiles, terrazzo and smooth concrete etc.)

Mechanically roughen surfaces by grinding or scarifying to provide a mechanical key - specialist advice and machinery may be required. Alternatively, apply a bonding coat of undiluted SikaBond® PVA+ and allow to become tacky before applying the levelling compound.

## MIXING

Sikafloor®-125 Level Flex will require 3.4 - 3.5 litres of clean water. Always add the powder to the water. Mix in a suitable clean container using a mechanical mixer with a spiral mixing paddle at slow speed until fully mixed and a smooth consistency achieved. Occasionally during hot weather the product may require re-mixing during the 15 - 20 minute pot life to reactivate the self-levelling characteristics. Do NOT add extra water. Discard any unused material after 20 minutes from initial mixing. If the product starts to stiffen or set DO NOT try to remix or add extra water.

### Mixing Time

Mix thoroughly for a minimum of 3 minutes.

### Mixing Tools

Use an electric stirrer (< 500 rpm).

## APPLICATION

Sikafloor®-125 Level Flex can be applied from a maximum thickness of 6 mm down to a featheredge. Pour the mixed product onto the floor and spread evenly with a steel trowel to form a thin, tight scrape coat within working time. Immediately add further quantities of mixed product to leave a smooth finish (if not, trowel again when the surface is still damp but firm to the touch). If required use a spiked roller, within working time, to provide a more uniform surface appearance. Additional layers, each not exceeding 6 mm, may be applied to achieve the required depth. Prime with Sika Bond® PVA+ diluted 1:3 with water between layers.

## CURING TREATMENT

In warm weather, mist spraying onto the surface should be used to compensate for moisture loss and to eliminate drying shrinkage cracking. Eliminate any through draughts which can cause moisture loss.

## CLEANING OF TOOLS

All tools and equipment should be cleaned immediately with water before the levelling compound hardens.

## 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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