

PRODUCT DATA SHEET

Sikafloor® Level 50

HIGH PERFORMANCE CEMENTITIOUS, SELF-LEVELLING, UNDERLAYMENT
WITH ADDED AGGREGATE

DESCRIPTION

Sikafloor® Level -50 is Ready to used High Performance Cementitious with added Aggregate, pumpable, low dusting, self-Levelling high performance cementitious underlayment for the levelling and smoothing of interior floors prior to the application of the final floor finish.

USES

Sikafloor® Level -50 can be applied manually or by pump to level floors at a thick, prior to subsequent finishing with epoxy or PU or PMMA system, ceramic or stone tiles, PVC sheet, wood flooring or carpets, etc.

CHARACTERISTICS / ADVANTAGES

- Self-levelling and good air release
- Fast application because of the good flow and cohesion of the fresh product
- Smooth and Less pore surface
- Easy to place by pump or manual application
- Capable of levelling surfaces.
- Low shrinkage. good bond and high mechanical strengths
- Maintains good workability and joint healing throughout its pot life
- Very good surface appearance and hardness
- No vibration required
- Economical concreting

PRODUCT INFORMATION

Chemical Base	Self-levelling mortar modified with polymer
Packaging	35 kg set Part A: 25 kg (powder) Part B: 10 kg (Aggregate)
Appearance / Colour	Ready to use dry cement based concrete with an aggregate grading of 0 - 8 mm, grey.
Shelf Life	9 months from date of production if store properly in original, unopened and undamaged sealed packaging
Storage Conditions	Store in dry conditions at temperatures between +18°C and +35°C. Protect from moisture, direct sunlight and frost.
Density	~ 2.28 kg/L

TECHNICAL INFORMATION

Initial Setting Time	6 – 9 hours
Compressive Strength	500 kg/cm ² with cube 15 x 15 x 15 cm (after 28 days)

SYSTEM INFORMATION

Productiveness 35 kg of dry mix yields approx. 15 L of concrete

APPLICATION INFORMATION

Consumption 3.5 to 4.2 L of water per 35 kg bag dependent on the desired flow.

Pot Life	Conditions	Time
	+ 30 °C min. / 50% r.h.	30 minutes

The temperature will affect the pot life. Application at temperature above +30 °C will reduce the pot life and the working time. Temperatures below +30 °C will increase the pot life and extend the working time.

Waiting Time / Overcoating After pouring, need wet cure for a minimum 3 days with wet hessian, plastic sheet or apply a curing compound (Antisol S).
Suitable for overcoating with impermeable moisture sensitive floors after drying normally reached after 3 – 7 days depend the system of topping

Applied Product Ready for use at +30 °C and 50 % r.h.

<u>Foot Traffic</u>	<u>~24 hours</u>
<u>Lightly serviceable</u>	<u>~72 hours</u>
<u>Fully serviceable</u>	<u>~7 days</u>

Note: Times are approximate and will be affected by changing substrate and ambient conditions, particularly the temperature and relative humidity.

APPLICATION INFORMATION

SUBSTRATE QUALITY / PRE-TREATMENT

The concrete substrate must be sound and of sufficient compressive strength (min. 25 N/mm²) with a minimum pull off strength of 1.5 N/mm².

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.

SUBSTRATE PREPARATION / BONDING

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

All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum.

The substrate can be in a SSD condition, but there must be no rising moisture prior to the dampening operation, according to ASTM D 4263 (Polyethylene-sheet test).

Used SBR or Acrylic Polymer Bonding or Epoxy Bonding Based for Bonding

MIXING

Using Pan mixer :

Mix dry concrete for a few seconds, then add mixing water. Mix with low-speed for 3 minutes.

Using Hand mixer :

Put appropriate quantity of water (depend on the desired flow) into a mixing vessel. Add slowly the total content mortar of Sikafloor® level-50 while mixing. Mix continuously for 2 minutes, then add the aggregate. Add mixing time 1 more minutes. Use a mechanically low speed drill (400–600 rpm) with mixing paddle.

CLEANING OF TOOLS

Clean all tools and application equipment with water immediately after use. Hardened / cured material can only be removed mechanically.

LIMITATIONS

Very absorbent substrates must be saturated with water or primed to prevent loss of the mixing water into the substrate, which can cause problems such as shrinkage, the appearance of surface pores or weak and dusty surfaces etc.

Do not mix with other cements or cement based screeds. Freshly applied Sikafloor® Level -50 must be protected from damp, condensation and water for at least 24 hours.

Do not exceed the recommended water dosage. Do not add more water when the product is starting to set.

Temperatures below +20°C extend the drying times. Sikafloor® Level -50 does not provide an aesthetic finish. Product must always be overcoated or any finishing process.

Protect from direct sunlight, hot or strong winds and extremes of temperature to avoid cracking or crazing. When overcoating with Sikafloor® or Sikabond® (or others), additional mechanical preparation may be required to remove any laitance which may have formed during application.

For the large area, for minimize shrinkage and de-bonding / de-lamination used shear connector every 50 cm and used Wire Mesh M6 / M8 applied the centre of thick of Topping Concrete.

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.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data and uses.

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.

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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