

PRODUCT DATA SHEET

Sikafloor®-100 Level

Polymer-modified, cementitious floor-levelling compound for layer thickness ranging from 2 to 10 mm

DESCRIPTION

Sikafloor®-100 Level is a polymer-modified cementitious floor levelling compound. It provides a smooth finish compound on subfloors at a layer thickness of 2–10 mm before the application of resilient flooring.

USES

Sikafloor®-100 Level is used for:

- Smoothing and levelling interior residential and non-industrial subfloors before applying a covering
- Sikafloor®-100 Level is used as a substrate for the following coverings:
- Resilient floor coverings such as linoleum and vinyl
- Textile floor coverings such as carpet

Please note:

- The Product may only be used by experienced professionals.

FEATURES

- Layer thickness of 2–10 mm
- Self-levelling
- Smooth finish
- Suitable for use with underfloor heating systems
- Pumpable
- Suitable for castor wheels in accordance with EN 12529
- Causes very little tension or stress on the substrate

SUSTAINABILITY

- VOC emission classification GEV Emission EC1^{plus}
- Giscode: ZP 1

CERTIFICATES AND TEST REPORTS

- CE marking and declaration of performance based on EN 13813:2002 Screed material and floor screeds — Screed material — Properties and requirements — Cementitious screed material

PRODUCT INFORMATION

Composition	Cement-based, polymer-modified	
Packaging	25 kg	Refer to the current price list for available packaging variations.
Appearance and colour	Grey powder	
Shelf life	6 months	
Storage conditions	The Product must be stored in original, unopened and undamaged packaging in dry conditions at temperatures between +5 °C and +35 °C. Always refer to the packaging. Refer to the current Safety Data Sheet for information on safe handling and storage.	
Product declaration	EN 13813:2002	Class CT-C25-F6

TECHNICAL INFORMATION

Compressive strength	Cured 28 days at +23 °C	≥ 25 N/mm ²	(EN 13892-2)
Flexural-strength	Cured 28 days at +23 °C	≥ 6 N/mm ²	(EN 13892-2)
Reaction to fire	A1 _{fl}		(EN 13501-1)

APPLICATION INFORMATION

Mixing ratio	Pourable consistency	6.0 L
Consumption	1.5 kg/m ² per mm of thickness Note: Consumption data is theoretical and does not allow for any additional material due to surface porosity, surface profile, variations in level, wastage or any other variations. Apply the Product to a test area to calculate the exact consumption for the specific substrate conditions and proposed application equipment.	
Layer thickness	Maximum	10.0 mm
	Minimum	2.0 mm
Material temperature	Maximum	+25 °C
	Minimum	+10 °C
Ambient air temperature	Maximum	+30 °C
	Minimum	+10 °C
Relative air humidity	< 75 %	
Substrate temperature	Maximum	+25 °C
	Minimum	+10 °C
Pot Life	At +20 °C	30 minutes
Waiting time to overcoating	Before applying a floor covering, make sure the Product has achieved the moisture content value required by the covering manufacturer. Refer to the manufacturer's Product Data Sheet for the respective covering. The Product can be covered as follows:	

Floor covering	Layer thickness	Typical waiting time
Resilient coverings	≤ 3 mm	24 hours
Resilient coverings	≤ 5 mm	48 hours
Resilient coverings	≤ 10 mm	72 hours
Ceramic tiles with the Product applied on a concrete or cementitious screed substrate	≤ 2–10 mm	4–6 hours
Ceramic tiles with the Product applied on other substrates	≤ 2–10 mm	24 hours

Times measured at an ambient temperature of +20 °C, a substrate temperature of +15 °C with a 65 % relative humidity.

Note: Times are approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity. Times are also dependant on layer thickness.

Applied product ready for use

Foot traffic: 3 hours

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

BASIS OF PRODUCT DATA

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

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.

APPLICATION INSTRUCTIONS

EQUIPMENT

Select the most appropriate equipment for the project.

SUBSTRATE PREPARATION EQUIPMENT

- Abrasive blast cleaning equipment
- Grinding equipment
- Planing machine
- Scarifying machine
- Abrading (sanding) equipment
- Industrial vacuuming equipment

For other types of preparation equipment, contact Sika Technical Services.

MIXING EQUIPMENT

- Electric single-paddle or double-paddle mixer (< 600 rpm) with helical, disc-shaped mixing paddle
- Scraper
- Clean mixing containers

For other types of mixing equipment, contact Sika Technical Services.

APPLICATION EQUIPMENT

- Mixed material carrier
- Pin leveller (pin rake)
- Surface blade

- Screed rake
- Notched trowel
- Smoothing trowels
- Spiked roller

For types of pumping equipment, contact Sika Technical Services.

SUBSTRATE QUALITY

Suitable substrates:

- Concrete
- Cementitious screeds
- Rapid cement screeds
- Calcium sulphate screeds

Substrate quality:

- Cementitious substrates such as concrete and screed must be sound.
- Substrates must be clean, dry and free of all contaminants such as dirt, oil, grease, polish, coatings, water-soluble and water-resistant adhesives, varnish, laitance, surface treatments and loose friable material.

SUBSTRATE PREPARATION

IMPORTANT: Impaired Product properties due to substrates with rising moisture

1. Do not apply the Product on substrates with rising moisture.
2. If rising moisture can occur, apply an effective damp-proof membrane that complies with the applicable national standard.

IMPORTANT: Surface defects due to voids in the substrate

Voids and blow holes in the substrate will weaken the surface and damage the covering Product if not repaired during the preparation process.

1. Fully expose blow holes and voids during surface preparation to identify the required repairs.
1. Remove separation and sinter layers.
2. **IMPORTANT:** The final texture of the substrate must be open-textured and gripping. Remove weak ce-

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mentitious and levelling layers, and fully expose defects such as blow holes and voids. Note: Suitable methods for surface preparation are abrasive blast cleaning, grinding, planing or scarifying equipment, depending on the type of substrate.

3. Before applying the Product, remove all dust, loose and friable material from the application surface with industrial vacuuming equipment.
4. Repair and fill blow holes and voids using appropriate products from the Sikafloor®, Sikadur® and Sikagard® range of materials.
5. Any repair materials must be cured before starting to apply the Product.

NORMALLY-ABSORBENT SUBSTRATES SUCH AS CONCRETE, CEMENT SCREEDS AND RAPID CEMENT SCREEDS

1. Prime the substrate with Sikafloor®-01 Primer diluted 1:3 with water.

CALCIUM SULPHATE SUBSTRATES WITH PRODUCT LAYER THICKNESS OF LESS THAN 10 MM

1. Prime the substrate with Sikafloor®-01 Primer diluted 1:1 with water.

CALCIUM SULPHATE SUBSTRATES WITH PRODUCT LAYER THICKNESS OF MORE THAN 10 MM

1. Prime the substrate twice with Sikafloor®-151.
2. Fully broadcast the primer with quartz sand (0.3–0.8 mm).
3. If the primer is not fully broadcast, apply Sikafloor®-02 Primer before applying the Product.

NON-ABSORBENT SUBSTRATES SUCH AS CERAMIC TILES, WATER-RESISTANT ADHESIVE RESIDUES, EPOXY RESIN LAYERS

1. Prime the substrate with Sikafloor®-02 Primer undiluted or Sikafloor®-01 Primer undiluted.

SUBSTRATES WITH WATER-SOLUBLE ADHESIVE RESIDUE

1. Prime the substrate with Sika® Primer MB Rapid, or Sikafloor®-150 Plus, Sikafloor®-151.
2. Fully broadcast the primer with kiln-dried quartz sand.
3. If the primer is not fully broadcast, apply Sikafloor®-02 Primer before applying the Product.

MIXING

IMPORTANT: Incompatibility with Portland cement
The Product is a special cement binder-based mortar which can expand in contact with standard Portland cements.

1. Do not mix or blend the Product with Portland cements or other binders.

IMPORTANT: Reduced Product performance due to overaddition of water

1. Do not add more than the prescribed water amount to the Product.
1. Pour the minimum amount of water into a suitable clean mixing container.
2. Use an electric single-paddle or double-paddle mixer (< 600 rpm) with a helical, disc-shaped mixing paddle. Mix the water slowly while gradually adding the complete bag of the Product.

3. Mix continuously for 2 minutes to achieve a smooth, uniform mix. If necessary, add more water to achieve the required consistency.
4. Allow to stand for 2 minutes to allow entrained air to escape and for the mixture to mature.
5. Mix for a further 1 minute.

APPLICATION

IMPORTANT: Strictly follow installation procedures
Strictly follow installation procedures as defined in Method Statements, application manuals and working instructions which must always be adjusted to the actual site conditions.

IMPORTANT: Subfloor cracking due to incorrect assessment of site requirements

1. Bring edge and movement joints through to the finished surface and protect them so the Product will not flow into the joint.
2. Use an isolating strip to prevent the Product bonding onto vertical surfaces, such as pipes, ducts, conduits, walls and columns.
3. Protect the freshly-applied Product from high ambient temperatures, direct sunlight and draughts.

Subfloor thickness and flatness

Note: The Product must be applied to the required thickness and surface flatness as specified by the floor covering manufacturer.

APPLYING A SINGLE LAYER

1. Pour the mixed Product onto the substrate.
2. Spread the Product evenly using a smoothing trowel, surface blade, screed rake or pin leveller (pin rake) to the required thickness.
3. Allow the Product to smooth over the substrate.
4. Immediately use a spiked roller to remove any trowel marks or surface defects, as required. Note: This step is more likely if a trowel was used for spreading, rather than a pin leveller.

APPLYING TWO LAYERS

1. Pour the mixed Product onto the substrate.
2. Spread the Product evenly using a smoothing trowel, surface blade, screed rake or pin leveller (pin rake) to the required thickness.
3. Allow the Product to smooth over the substrate.
4. Immediately use a spiked roller to remove any trowel marks or surface defects, as required. Note: This step is more likely if a trowel was used for spreading, rather than a pin leveller.
5. Allow the first layer to harden.
6. Prime the first layer with Sikafloor®-01 Primer diluted 1:1 with water.
7. In a two-layer application, the thickness of the second layer must not exceed the thickness of the first layer. Apply a second layer of the Product.

CLEANING OF EQUIPMENT

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

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the

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declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

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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