BUILDING TRUST

PRODUCT DATA SHEET

Sikafloor®-200 Level (ZA)

POLYMER MODIFIED CEMENTITIOUS FLOOR LEVELLING COMPOUND for 3–40 mm. C25-F6.

DESCRIPTION

Very low emission cement based self levelling compound suitable for interior and exterior areas.
Sikafloor®-200 Level (ZA) is characterised as a multipurpose, for average loading, very low shrinkage and high thickness levelling compound.

USES

Sikafloor®-200 Level (ZA) is suitable for filling, smoothing and levelling of suitable substrates before applying parquet, ceramic tiles, seamless resinfloors, textile and elastic floor coverings for interior and exterior resi- dential and non-industrial areas.

CHARACTERISTICS / ADVANTAGES

- Self levelling
- Suitable for application on subfloor heating systems
- Layer thickness up to 60 mm with aggregates
- Low tension
- Pumpable
- Exterior use when covered
- Suitable for castor wheels loading according to EN 12529
- Suitable to build bonded screeds under ceramic tiles on cemetitious substrates

ENVIRONMENTAL INFORMATION

EC 1 PLUS R: very low emission.

APPROVALS / STANDARDS

Cementitious levelling compound CT-C25-F6 according to EN 13813.
Cementitious levelling compound according to EN 13813,classified A1/A1fl according to EN 13501-1.

PRODUCT INFORMATION

Chemical Base	Cement based, Polymer modified
Packaging	20 kg in paper bags.
Appearance / Colour	Powder, Grey
Shelf Life	6 months from the date of production.
Storage Conditions	Opened bags should be closed immediately and used up as soon as possible. Do not store below +5 °C.

TECHNICAL INFORMATION

Compressive Strength	≥ 25 N/mm² (28 days 23 °C)	(EN 13892-2)
Tensile Strength in Flexure	≥ 6 N/mm² (28 days at 23 °C)	(EN 13892-2)

APPLICATION INFORMATION

Mixing Ratio

Sikafloor®-200 Level (ZA)	~3.6 l water for 20 kg Sikafloor®-200 Level (ZA)
Sikafloor®-200 Level (ZA) with aggregates	Add 13 kg or 8 L of quartz sand 0.1–3.0 mm for 20 kg Sikafloor®-200 Level (ZA) (~65 % by weight) ≤ 3.6 L water for 20 kg Sikafloor®-200 Level (ZA)

Consumption

~ 1.8 kg/m²/mm

Layer Thickness

Sikafloor®-200 Level (ZA)	3–40 mm
Sikafloor®-200 Level (ZA) with aggregates	10–60 mm

Ambient Air Temperature

+5 °C min. / +30 °C max.

Relative Air Humidity

< 75 %

Substrate Temperature

+5 °C min. / +30 °C max.

Substrate Pre-Treatment

Substrate	Primer
Normal absorbent substrates such as concrete, cement screeds, rapid cement screeds	Sikafloor®-01 Primer (1:3) or Sikafloor®-03 Primer
Calcium sulphate substrates[1]	Sikafloor®-03 Primer or Sikafloor®-01 Primer (1:1)
Non absorbent substrates such as primed old water-resistant adhesive residue	Sikafloor®-02 Primer or Sikafloor®-01 Primer
Magnesia screeds (not xylolite)	Sikafloor®-02 Primer

1. If the layer thickness of the Sikafloor®-200 Level (ZA) exceeds 10 mm prime the calcium sulphate substrate twice with Sikafloor®-155 WN. If Sikafloor®-155 WN is not fully broadcasted with quartz sand (0,2 - 0,8 mm), use Sikafloor®-02 Primer before applying Sikafloor®-200 Level (ZA).

Pot Life

~1hr. at +20 °C

Waiting Time / Overcoating

Sikafloor®-200 Level (ZA) can be covered as follows

Covering	Layer Thickness	Waiting Time
All kind of coverings	≤ 5 mm	~24 hours
All kind of coverings	≤ 10 mm	~72 hours
Ceramic coverings (and Sikafloor®-200 Level (ZA) applied on concrete or cementitious screeds interior)	≤ 60 mm	~4 hours

All values are approximate and are subject to variation. Values given with 20 °C and 65 % rel. humidity, temperature of substrate +15 °C.
When covering the Sikafloor®-200 Level (ZA) always ensure the moisture content has achieved the required value for the product to cover, as the waiting time will vary with the application thickness and ambient humidity. (Refer to the covering product data sheet)

Applied Product Ready for Use

Ready for foot traffic after ~4 hours.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

- Suitable substrates are: Concrete, cement and rapid cement screeds, calcium sulphate based screeds, ceramic tiles and natural stones, magnesia screeds, mastic asphalt screeds (IC10, IC15 according EN 13813).

Requirements for the substrate:

- Adequate strength, load bearing capacity, dimensional stability and permanent dryness.
- Must be sound and clean, free of all contaminations, e.g. dust, dirt, oil, grease and loose particles.
- Separation layers, sinter layers, and other similar contamination should be removed through appropriate measures, such as sanding, brushing, abrasive blast cleaning, milling or thorough cleaning.
- Old, loose and weak levelling layers should be removed mechanically.
- Surface treatments or any friable areas of the subfloor must be mechanically removed and filling of blowholes and voids should be carried out using a suitable Sikafloor® product.
- Layers of water-soluble adhesives, e.g. sulphite-waste-adhesives, are to be mechanically removed.
  Remaining adhesive residues should be primed with Sikafloor®-155WN/-161. If this primer is not fully broadcasted with quartz sand (0.2–0.8 mm) , Sikafloor®-02 Primer should be used before applying the Sikafloor®-200 Level (ZA).
- Old water resistant adhesives are to be mechanically removed as thoroughly as possible.
- Old, ceramic and natural stones coverings should be firmly laid, thoroughly cleaned and sanded.
- Mastic asphalt screeds IC10 and IC 15 according EN 13813. Sikafloor®-200 Level (ZA) must have a thickness of 3 mm at least and not exceed 5 mm. The mastic asphalt must be fully broadcasted with quartz sand (rough surface). If the surface is smooth (insufficiently broadcasted or old used surface) use primer Sikafloor®-02 Primer or Sikafloor®-01 Primer undiluted before applying Sikafloor®-200 Level (ZA).
- Use Sikafloor®-01 Primer, Sikafloor®-02 Primer, Sikafloor®-03 Primer one part acrylic primers for a pore free surface with very good adhesion. Refer to the relevant PDS.
- Do not apply on substrates with rising moisture. If rising moisture can occure an effective damp proof membrane must be applied and be in compliance with the relevant national standard.
- The requirements of the relevant valid standards, guidelines and data sheets apply.

MIXING

Add Sikafloor®-200 Level (ZA) to cold clean water using a clean container and mix for ~2 min until a homogeneous mixture has been achieved. Use of a mixer with disc stirring rod is recommended. After a short maturing time, mix again thoroughly.
Note: Do not mix Sikafloor®-200 Level (ZA) with cement or other cementitious product, and if applicable aggregates are added last.

APPLICATION

- After mixing spread Sikafloor®-200 Level (ZA) using a suitable tool (surface blade, screed rake or pin leveller) and remove the entrapped air using a spike roller.
- Edge and movement joints must be brought through to the finished surface and should be protected against levelling compound to run in.
- The levelling works should be applied to an adequate thickness and surface flatness as required by the manufacturer of the tile or flooring finish.
- In case of high layer-thickness, contact with vertical structures should be avoided by placing a perimeter isolating strip.
- If a second layer of levelling compound is to be applied, the first levelling compound layer should be primed with the primer Sikafloor®-03 Primer or with Sikafloor®-01 Primer (1:1) . The maximum layer thickness may not be exceeded in case of two layer application. The second layer may not exceed the layer thickness of the first.
- Contact to metal like water bearing pipes must be avoided (e.g. sealing of pipe penetrations), because especially galvanised steel pipes have no sufficient corrosion protection.
- Protect curing Sikafloor®-200 Level (ZA) levelling layers from high ambient temperatures, direct sunlight and draughts.

CLEANING OF TOOLS

Immediately after use clean tools with water.
Hardened material can only be mechanically removed.

FURTHER DOCUMENTS

The applicable recommendations, guidelines, European Standards, regulations and Safety Data Sheets are to be observed, together with the recognised architectural and engineering regulations.

LIMITATIONS

- when Sikafloor®-200 Level (ZA) is to be used exterior or in wet areas a subsequent robust waterproofing layer is required.
- Old mastic asphalt screeds IC10 and IC15 (EN 18813) often contain cracks or are embrittled. This substrate does not display sufficient strength for taking a low stress cementitious levelling compound. In this case using a stress-free gypsum-levelling compound is recommended.
- Use full surface levelling with a minimum layer thickness of 5 mm when covered with parquet or resin floors systems.
- Where Sikafloor®-200 Level (ZA) is to be used with a seamless resinous flooring covering it is strongly recommended to use resin systems with a minimum thickness of 2 mm. To assure proper preparation and a continious pore free surface it is advisable to apply a double coat of primer consisting of a roller applied Sikafloor®-03 Primer followed by a second coat of Sikafloor®-161 + 2% Extender T applied as a scratch coat. Inspect the primer for leaving a pore free surface before application of the self levelling body coat the next day. The bond strength of this combination of primers on the Sikafloor®-200 Level (ZA) wil be ~1.0 N/mm².
- By German regulations subsequent installation of floor coverings, cement based substrates such as screeds are required to display a residual moisture reading of ≤ 2.0 CM-% (heating screeds ≤ 1.8 CM-%), calcium sulphate screeds should have a reading of ≤ 0.5 CM-% (heating screeds ≤ 0.3 CM-%).

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 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.

ECOLOGY HEALTH AND SAFETY

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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