BUILDING TRUST

PRODUCT DATA SHEET

SikaLevel®-102 (GR)

Polymer modified cementitious floor levelling compound for 2 – 10 mm

DESCRIPTION

SikaLevel®-102 (GR) is a very low emission, one part, polymer modified self-leveling cementitious underlayment for levelling and smoothing interior floors.

USES

Formulated for smoothing and levelling interior residential and non-industrial subfloors before applying:
- Ceramic or Stone tiles
- Resilient floor coverings (linoleum, vinyl)
- Textile coverings (carpet)
- Under wood and laminate floating floor systems

FEATURES

- Self-levelling
- Smooth finish
- Layer thickness: 2 – 10 mm
- Pumpable
- Low shrinkage
- For interior use
- Good bond and compaction
- Suitable for application on subfloor heating systems
- Suitable for rolling chair traffic (from 3 mm thickness layer)

SUSTAINABILITY

- VOC emission classification GEV-Emicode EC1PLUS
- Environmental Product Declaration (EPD) in accordance with EN 15804. EPD independently verified by Institut für Bauen und Umwelt e.V. (IBU)

CERTIFICATES AND TEST REPORTS

CE Marking and Declaration of Performance to EN 13813 - Cementitious floor screed material, Class CT-C20-F5

PRODUCT INFORMATION

Composition	Cement based, Polymer modified
Packaging	25 kg bag
Appearance and colour	Powder / Grey
Shelf life	6 months from date of production
Storage conditions	Product must be stored in original, unopened and undamaged packaging in dry conditions at temperatures between +10 °C and +30 °C. Always refer to packaging.

TECHNICAL INFORMATION

Compressive strength

Time	Temperature	Value
28 days	+23 °C	≥20 N/mm²

Tensile strength

Time	Temperature	Value
28 days	+23 °C	≥6 N/mm²

Reaction to fire $A1_{fl}$

APPLICATION INFORMATION

Mixing ratio 5.75 – 6.0 lt of water per 25 kg bag

Consumption ~1.5 kg/m² of powder per 1 mm thickness
This figure is theoretical and does not allow for any additional material due to surface porosity, surface profile, variations in level or wastage etc.

Layer thickness 2 – 10 mm

Ambient air temperature

Min.	+10 °C
Max.	+30 °C

Relative air humidity <75 %

Substrate temperature

Min.	+10 °C
Max.	+30 °C

Pot Life ~30 min. at +20 °C

Waiting time to overcoating

Important: Before applying floor covering, make sure the SikaLevel®-102 (GR) has achieved the required moisture content value required by the covering manufacturer. (Refer to the covering Product Data Sheet).
Note: Times are approximate and measured at +20 °C (ambient) / +15 °C (substrate) / 65 % r.h.
Note: Application times will be affected by changing substrate and ambient conditions, layer thickness and water content.
Note: Refers to concrete / screed substrates. For other substrates, the waiting time is ~24 hours.
SikaLevel®-102 (GR) can be covered as follows:

Floor covering	Layer Thickness	Waiting Time
Resilient	≤3 mm	~24 hours
Resilient	≤5 mm	~48 hours
Resilient	≤10 mm	~72 hours
Ceramic tiles	2 – 10 mm	4 – 6 hours

Applied product ready for use
Foot traffic: ~3 hours
Note: Time will be affected by changing substrate and ambient conditions, layer thickness and water content.

SYSTEM INFORMATION

System structure

Primer/ Bonding agent:
Sikafloor®-01 Primer, Universal dispersion primer for absorbent substrates
Sikafloor®-02 Primer, Acrylate based primer for non-absorbent substrates
Floor levelling compound:
SikaLevel®-102 (GR), Floor levelling compound, Class CT-C20-F6, acc. to EN 13813

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

- Do not apply on substrates with rising moisture. If rising moisture can occur, an effective damp proof membrane must be applied in compliance with the relevant national standard
- The following guidelines may assist when floor coverings can be applied over SikaLevel®-102 (GR): German regulations state the subsequent installation of floor coverings on 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 are required to have a reading of ≤0.5 CM-% (heating screeds ≤ 0.3 CM- %)
- Do not exceed the recommended water dosage. Do not add more water when the product is setting
- Do not exceed the recommended thickness
- Product must always be covered by a topping layer
- It is necessary to avoid casting peripheral joints and use marginal strips
- Not suitable for slopes or inclines >1.0%
- Freshly and stiffed SikaLevel®-102 (GR) must be always protected from damp, condensation and water!

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

EQUIPMENT

Select the most appropriate equipment required for the project:

Substrate preparation equipment

- Abrasive blasting cleaning equipment
- Planing machine
- Scarifying machine
- High pressure water blasting equipment
- Sanding equipment

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

Mixing equipment

- Electric single or double paddle mixer (<600 rpm) with Helical Disc-Shaped or spiral helix 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
- Spike roller

For types of pumping equipment, contact Sika Technical Services.

SUBSTRATE QUALITY / PRE-TREATMENT

Substrate quality

- Cementitious substrates (concrete / 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
- Remove separation and sinter layers

Pre-treatment

- Prepare substrates, separation and sinter layers mechanically by selecting and using abrasive blast cleaning, grinding or planing / scarifying equipment for the type of substrate
- The final texture of the substrate must be open textured and gripping
- Remove weak cementitious and levelling layers. Surface defects such as blow holes and voids must be fully exposed using the surface preparation equipment
- Use products from the Sikafloor®, Sikadur® and Sikagard® range of materials to level the surface or fill cracks, blow holes and voids. For additional information on products for levelling and repairing defects, contact Sika Technical Services
- Products must be cured before applying SikaLevel®-102 (GR)
- Seal remaining water-soluble adhesive residue by priming floor with Sikafloor®-155WN/-150/-151 or Sika® Primer MB Rapid and fully broadcast with kiln dried quartz sand. If quartz sand is not used, the sealing primer must be coated with Sikafloor®-02 Primer before applying SikaLevel®-102 (GR)
- Use industrial vacuuming equipment to remove all dust, loose and friable material from the application surface before applying the product
- To improve the adhesion and provide a pore free surface for subsequent coverings, use Sikafloor®-01 Primer, Sikafloor®-02 Primer or Sikafloor®-03 Primer

MIXING

Important: Do not add more than 6.0 litres of water to 25 kg of powder.

Important: Do not mix or blend with OPC cements or other binders.

Requirement: Use an electric single or double paddle mixer (<600 rpm) with helical disc-shaped mixing paddle.

1. Pour ~5.75 – 6.0 litres of clean water into a clean mixing container.
2. Mix the water slowly while gradually adding the complete bag of powder.
3. Mix continuously for 2 minutes to achieve a smooth, uniform mix. If necessary, add more water (up to the max.) to achieve the required consistency.
4. To allow entrained air to escape and mature, let the mixture stand for ~2 minutes.
5. Mix for a further ~1 minute.

APPLICATION

Important: Edge and movement joints must be brought through to the finished surface and must be protected, so the product will not flow into the joint. **Important**: The product must be applied to the required thickness and surface flatness as specified by the floor covering manufacturer. **Important**: Use an isolating strip / tape to prevent product bonding onto vertical surfaces, i.e. pipes, ducts, conduits, walls, columns etc. **Important:** To reduce the risk of cracking, protect freshly applied product from high ambient temperatures, direct sunlight and draughts.

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 product to smoothen over the substrate
4. If required, spike roller immediately to remove any trowel marks or surface defects

CLEANING OF EQUIPMENT

Removal of fresh remnants from tools and application equipment can be carried out using water immediately after use. Hardened / cured material can only be mechanically removed.

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.

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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