

PRODUCT DATA SHEET

Sika® Level-315 F

Fibre-reinforced, self-leveling underlayment flooring compound for interior use.

DESCRIPTION

Sika® Level-315 F is a pumpable, fibre-reinforced leveling compound for use on dimensionally stable wood and cement/calcium sulfate-bound substrates in preparation for subsequent indoor coverings.

USES

- Universally applicable flooring compound for leveling and smoothing of screeds, wooden flooring and concrete floors in layer thicknesses of 3 to 15 mm in one operation
- As a leveling layer under ceramic flooring, natural stone as well as textile, PVC, parquet and wood or linoleum

CHARACTERISTICS / ADVANTAGES

- Pumpable
- Self-leveling
- Fibre-reinforced
- Walkable after 3 hours (at +20°C)
- Quick drying
- Suitable for chair rolls
- Can be used on floors with underfloor heating
- Up to 15 mm layer thickness without reinforcement

ENVIRONMENTAL INFORMATION

- EC1 Plus R

APPROVALS / STANDARDS

- Conforms EN 13813-CT-25-F6-RWA 100
- Emission test report no. 767656, institute Eurofins 02-2009
- Fire classification Euroclass A1
- EMICODE EC-1PLUS test report no. 2906/20.10.00, GEV Düsseldorf 12-2010

PRODUCT INFORMATION

| | |
|---------------------|---|
| Chemical Base | Modified special cement mortar |
| Packaging | 20 kg bags |
| Appearance / Colour | Grey |
| Shelf Life | 9 months from date of production |
| Storage Conditions | In unopened, undamaged packaging at temperatures between +5°C and +30°C. Protect from humidity! |

TECHNICAL INFORMATION

| | | | |
|---------------------------|---------------------------------|--------------|--------------|
| Compressive Strength | ~ 15 MPa | 48 h / +20°C | (EN 13892-2) |
| | ~ 28 MPa | 28 d / +20°C | |
| Flexural Strength | ~ 4 MPa | 48 h / +20°C | (EN 13892-2) |
| | ~ 7 MPa | 28 d / +20°C | |
| Tensile Adhesion Strength | ~ 1.5 MPa | 28 d / +20°C | (EN 13892-8) |
| Thermal Resistance | Suitable for underfloor heating | | |

APPLICATION INFORMATION

| | | |
|----------------------------|--|--------------------------|
| Mixing Ratio | 5.0 - 5.2 litres of cool, clean water per 20 kg bag. | |
| Consumption | ~ 1.6 kg mortar powder/m²/mm layer thickness | |
| Layer Thickness | Minimum 3 mm to maximum 15 mm 20 kg bag: 15mm min. to 30mm max., with approx. 30% by weight addition of 0.7 to 1.2 or 1.0 - 2.0mm of quartz sand per bag. (i.e. 6 kg per 20 kg bag.) | |
| Ambient Air Temperature | Minimum +10°C / maximum +25°C | |
| Substrate Temperature | Minimum +10°C / maximum +25°C For increased surface strength and good adhesive strengths - also with aqueous adhesives - it is recommended to work at air and substrate temperatures between +15°C and +25°C. In cold weather tempering of Sika® Level-315 F is recommended. | |
| Pot Life | ~ 30 minutes at +23°C and 50 % r.h. Higher temperatures accelerate setting, lower temperatures reduce setting of the product. | |
| Waiting Time / Overcoating | At +23°C and 50 % r.h. | |
| | Walkable after | ~ 3 hours (without load) |
| | Ready for covering with tiles | ~ 4 - 6 hours |
| | Ready for covering with parquet with 3 mm thickness | ~ 24 hours |
| | Prior to application of Sika® Level-315 F, ensure that the maximum moisture content for the subsequent coating is achieved. (See the corresponding standards and information sheet of the subsequent coatings or adhesives). | |

SYSTEM INFORMATION

| System Structure | Layer | Product |
|------------------|----------|--|
| | Primer | Sikafloor®-01 Primer (for porous substrates) SikaTile-015 NPP (for a non-porous substrates) |
| | | Sikafloor®-150/ -151 fully broadcast with quartz sand 0.4 - 0.7mm or Sika® Aggregate-501 (for heavy loads) |
| | Leveller | Sika® Level-315 F (fibre-reinforced) to the required thickness 3 - 15 mm. |

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.

LIMITATIONS

- Do not mix Sika® Level-315 F with other compounds or cement
- Due to the fibre content, a slightly textured finish is possible.
- Always comply with the mixing ratio
- Do not dilute already mixed material with more water
- Not suitable for outdoor use or high loads (e.g., industrial floors)
- **Only use as an underlay**
- Joints and crevices in wooden substrates are to be sealed with Sikaflex®-11FC Purform®
- Drying time is influenced by temperature and humidity
- Do not use Sika® Level-315 F in areas where moisture (e.g., rising moisture from the substrate due to missing DPC) can occur
- Not suitable for slopes greater than 0.5 %
- When using adhesives other than SikaTile® or SikaBond®, create a test area first
- Connection to rising components are to be made by installing an edge strip

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

SUBSTRATE QUALITY / PRE-TREATMENT

- The substrate must be dry, and free of grease and oil.
- Substrate must be prepared by mechanical means, e.g. shot blasting or grinding.
- Insufficiently strong layers and soiling must be removed.
- Cement lumps and loose surface material must be completely removed, preferably with an industrial vacuum cleaner.
- Wood floors must be stable and free of pests. Spacing between beams may not exceed 400 mm, thickness of boards at least 20 mm.
- The substrate is to be ground and clean with an industrial vacuum cleaner.
- Before application of Sika® Level-315 F a primer must be used: Sikafloor®-01Primer (for normal load), SikaTile-015 NPP (recommended for a pore free surface with very good surface adhesion), Sikafloor® -150/ -151 fully broadcast with quartz sand 0.4 - 0.7mm or Sika Aggregate-501 (for heavy load).

- Sika® Level-315 F is especially suitable in application with SikaBond® adhesives or SikaTile® adhesives.

▪ **Important:** Always observe Product Data Sheet of relevant adhesive and primer!

MIXING

When mixing manually, place 5.0 - 5.2 litres of cool, clean water in a suitable sized mixing vessel. Add a full bag (20 kg) of Sika® Level-315 F powder slowly to the water, mixing (slow speed 300-400 RPM) continuously to achieve a homogeneous and lump-free mix (at least 3 minutes). After mixing thoroughly, leave the material to stand in the container for two or three minutes until the majority of air bubbles have dispersed.

APPLICATION

Pour Sika® Level-315 F onto the floor and smooth with a trowel to the desired layer thickness. To improve floating and deaeration use a swab bar at a higher layer thicknesses.

Important!

- Avoid rapid drying.
- Protect from direct sunlight and drafts.
- Higher temperatures of the powder and the mixing water accelerate the setting of Sika® Level-315 F. Lower temperatures delay setting.

CLEANING OF TOOLS

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

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. 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.

Sika (NZ) Limited

85-91 Patiki Road
Avondale, Auckland 1026
New Zealand
0800 745 269
www.sika.co.nz



Product Data Sheet

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