

PRODUCT DATA SHEET

Sikafloor® Level-30

Self-levelling, fast-drying, cementitious screed for floors, layer thickness 4–30 mm

DESCRIPTION

Sikafloor® Level-30 is a polymer-modified, pumpable, self-levelling, fast-drying cementitious screed for 4–30-mm-thick interior or exterior floors. It meets the requirements of class R3 according to EN 1504-3.

USES

Sikafloor® Level-30 is used for:

- Levelling or smoothing screeds and concrete floors at a thickness of 4–30 mm in one working step
- Industrial service conditions when sealed with a PU or EP resin top coat, for medium to high loads such as heavy traffic and forklift pallet trucks with impact loads
- Filling, smoothing and levelling suitable substrates before applying parquet, ceramic tiles, seamless resin floors, textile and elastic floor coverings
- Exterior areas when sealed with a covering such as a coating
- Fulfil requirements of EN 1504-9, principle 3, method 3.1; principle 4, method 4.4; and principle 7, methods 7.1 and 7.2

CHARACTERISTICS / ADVANTAGES

- Self-smoothing and highly fluid
- Easy to place by pump or manual application
- Ready for use

- Low shrinkage
- Maintains good workability and joint healing throughout its pot life
- Fast setting and drying
- Good surface appearance and hardness
- Good freeze-thaw and de-icing salt resistance
- Free from casein and formaldehyde
- Suitable for use with underfloor heating systems

ENVIRONMENTAL INFORMATION

- VOC emission classification GEV Emission EC1^{plus}
- Contributes towards satisfying Materials and Resources (MR) Credit: Building Product Disclosure and Optimization — Material Ingredients under LEED® v4 — 1 point
- LEED v4.1 MR: Environmental Product Declarations (option 1) Sikafloor® Level-30 en
- Environmental Product Declaration (EPD) in accordance with EN 15804. EPD independently verified by Institut für Bauen und Umwelt e.V. (IBU)

APPROVALS / STANDARDS

- CE marking and declaration of performance based on EN 13813:2002 Screed material and floor screeds — Screed material — Properties and requirements — Cementitious screed material
- CE marking and declaration of performance based on EN 1504-3:2005 Products and systems for the protection and repair of concrete structures — Structural and non-structural repair

PRODUCT INFORMATION

Chemical Base	Polymer-modified rapid hardening cement
Packaging	20 kg
Colour	Beige-grey
Shelf Life	9 months from date of production

Storage Conditions	The Product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +30 °C. Always refer to the packaging. Refer to the current Safety Data Sheet for information on safe handling and storage.		
Density	2.0 kg/l		
Bulk Density	1250 kg/m ³		(ISO 697)

TECHNICAL INFORMATION

Abrasion Resistance	A12	12 cm ³ / 50 cm ²	Böhme	(EN 13892-3)
	AR 0.5	< 50 µm	BCA	(BS EN 13892-4)
	RWA 100	< 100 cm ³	RWA	(EN 13892-5)
Compressive Strength	Conditioned 24 h at +20 °C	20 MPa		(EN 196-1)
	Conditioned 28 d at +20 °C	≥ 40 MPa		
Flexural Strength	Conditioned 24 h at +20 °C	3 MPa		(EN 196-1)
	Conditioned 28 d at +20 °C	≥ 10 MPa		
Tensile Adhesion Strength	Conditioned 28 d at +20 °C	≥ 1.5 MPa		(EN 13892-8)
Coefficient of Thermal Expansion	Temperature range -20 °C to +40 °C	16.3 × 10 ⁻⁶ 1/K		(EN 1770)
Water Absorption	0.5 kg/(m ² × h ^{0.5})			(EN 13057)

APPLICATION INFORMATION

Mixing Ratio	4 - 4.2 litres of water for 20 kg Sika-floor® Level-30		
Consumption	1.8 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	30 mm	
	Minimum	4.0 mm	
Product Temperature	Maximum	+25 °C	
	Minimum	+10 °C	
Ambient Air Temperature	Maximum	+25 °C	
	Minimum	+10 °C	
Relative Air Humidity	< 75 %		
Substrate Temperature	Maximum	+25 °C	
	Minimum	+10 °C	
Pot Life	At +20 °C	25 min	
	The temperature will affect the pot life. Application at temperatures above +23 °C will reduce the pot life and the working time. Temperatures below +23 °C will increase the pot life and extend the working time.		

Waiting Time / Overcoating

Covering	Layer thickness	Waiting time
Impermeable or moisture sensitive coatings	≤ 15 mm	24 hours
Impermeable or moisture sensitive coatings	≤ 30 mm	48 hours
Ceramic covering	≤ 30 mm	24 hours

Note: Times are approximate and at +23 °C and 50 % relative humidity, and thus will be affected by changing substrate and ambient conditions, particularly temperature and relative humidity.

Note: When overcoating the Product, always ensure the moisture content has achieved the required value for the coating product. Waiting times will vary with the application thickness and ambient humidity. Refer to the Product Data Sheet of the coating product.

Applied Product Ready for Use

Temperature and relative humidity	Traffic	Time
+20 °C and 50 % relative humidity	Foot traffic	3 hours
	Lightly serviceable	24 hours

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

Fresh mortar density

2.0 kg/l

(EN 1015-6)

SYSTEM INFORMATION

System Structure

Layer	Product
1. Primer	For normal intended use of the floor: Sika® Level-01 Primer For high-load intended use of the floor: Sikafloor®-151 or Sikafloor®-150 fully broadcast with quartz sand 0.4 – 0.7 mm or Sika Aggregate-501
2. Levelling	Sikafloor® Level-30
3. Seal coat or top coat	All kinds of Sikafloor® EP and PU coatings SikaTile® product range for the tile adhesives

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.

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 PREPARATION

IMPORTANT

Poor finish due to temperatures below dew point

A temperature close to or below dew point increases the risk of condensation, blooming or laitance on the floor finish.

1. The substrate and uncured floor must be at least 3 °C above dew point.

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.

CONCRETE SUBSTRATES: GENERAL

The concrete substrate must be sound and of sufficient compressive strength (> 25 MPa) with a minimum tensile adhesion strength of 1.5 MPa.

Substrates must be clean, dry and free of contaminants such as dirt, oil, grease, coatings, laitance, surface treatments and loose friable material.

1. Remove weak concrete and fully expose defects such as blow holes and voids. Note Suitable methods for surface preparation are high-pressure water jetting or abrasive blast cleaning. If using other pre-treatments such as scarifying and milling, subsequently use water jetting or blast cleaning to eliminate the remaining structural faults, remove cement laitance, and achieve an open and sound textured surface.
2. Ensure the mean surface roughness of the substrate is at least 1 mm. Note This is a prerequisite for a good bond between the substrate and levelling screed.
3. Repair and fill blow holes and voids using appropriate products from the SikaTop®, Sika MonoTop®, Sikafloor®, Sikadur® and Sikagard® range of materials.
4. To confirm adequate surface preparation and Product adhesion, carry out a trial before full application together with adhesion tests.

NORMAL INTENDED USE OF THE FLOOR

Apply 2 coats of Sika® Level-01 Primer, diluted 1 : 3 with water. Apply the second coat when the first coat is tack-free.

VERY ABSORBENT SUBSTRATES

Apply 3 coats of Sika® Level-01 Primer.

WEAK SUBSTRATE OR HIGH-LOAD INTENDED USE OF THE FLOOR

If high mechanical forces will be applied to the floor, or if the floor is placed on soil or a weak substrate, prime the substrate with Sikafloor®-151 or Sikafloor®-150. Fully broadcast the primer with quartz sand 0.4–0.7 mm or Sika Aggregate-501

MIXING

IMPORTANT

Reduced Product performance due to incompatible cements and cement-based screeds

1. Do not mix with other cements or cement-based screeds.

IMPORTANT

Reduced Product performance due to overaddition of water

1. Do not add more than the prescribed water amount to the Product.

MANUAL APPLICATION

1. Add the dry powder to a container with the recommended amount of clean water.
2. Mix thoroughly for a minimum of 3 minutes using an electric stirrer. Note A double-disc stirring paddle or a spiral mix paddle (300-400 rpm) provide the best results.
3. Leave the material to stand in the container for approximately 2 minutes until most air bubbles have dispersed.

PUMP APPLICATION

1. Use a mortar pump with appropriate equipment. Ask Sika Technical Services for further advice.
2. Set the machine in a way that a uniform mixture is achieved. Note Using a remixer provides the best results.
3. Control the water dosage to achieve the required flow, measuring the final average flow diameter on a flat, clean, dry flow table. Refer to the table for the required flow.

Tool	Flow	Standard
Ø = 30 mm	130 mm	EN 12706
H = 50 mm	± 5 mm	ASTM C 230-90
Ø 70 / 100 mm	355 mm	
H = 60 mm	± 10 mm	EN 1015-3
Ø = 60 mm	290 mm	
H = 120 mm	± 10 mm	

APPLICATION

Pour the mixed material onto the primed surface and apply by trowel or pin screed rake to the required thickness. Roll thoroughly with a spiked roller in two directions to remove any entrapped air. Best application time would be during falling temperatures.

IMPORTANT

Inconsistent colours due to inappropriate environmental conditions

Exposure to environmental conditions can cause colour inconsistencies. Under certain circumstances such as draughts, sunlight or low humidity, fine hairline cracks can occur. Small, superficial hairline cracking is a normal occurrence under such conditions and does not constitute a reason for a claim.

1. Keep the floor laying operation as clean and protected from the environment as possible.
2. Protect from direct sunlight, hot or strong winds and extremes of temperature to avoid cracking.

IMPORTANT

Poor finish due to slopes and inclines > 0.5 %

1. Do not use the Product for slopes or inclines of more than 0.5 %.

IMPORTANT

Impaired Product properties due to incorrect layer thickness

Applying the Product at an incorrect layer thickness can affect its mechanical properties.

1. The thickness of the levelling mortar must be at least 4 mm when using water-based adhesives under impermeable or vapour-tight floor finishes.
2. Do not exceed the recommended thicknesses.

IMPORTANT

Impaired Product properties due to premature loading

Loading the Product too early can affect its mechanical properties and result in a poor finish.

1. Do not load the Product for at least 3 hours.

Low temperatures

Note: Temperatures below +20 °C extend the drying times.

Use of appropriate sealers and coatings

1. Seal the surface with a final floor finish for the best curing and aesthetic appearance.
 2. When overcoating with adhesives such as Sika-Ceram® or Sikabond®, additional mechanical preparation may be required to remove any cement laitance which may have formed during application. If using other products for covering, perform a preliminary test for compatibility.
 3. If using as an R3 repair mortar for carbonation protection, always use the Product in combination with a suitable coating.
1. To prevent the Product from bonding, install isolating strips to vertical perimeter surfaces such as pipes, ducts, conduits, walls, columns.
 2. Pour the mixed material on to the primed surface. Note The optimal application time is during falling temperatures.
 3. Apply the Product evenly over the surface with a trowel, pin leveller or screed rake to the required thickness.
 4. Back-roll the surface in two directions at right angles with a spike roller.
 5. Protect the freshly applied Product from damp, condensation and water for at least 24 hours.

CLEANING OF TOOLS

Clean all tools and application equipment with water immediately after use. 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



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