

PRODUCT DATA SHEET

Sika® Level SkimCoat

Fast setting, cement based smoothing and finishing compound

DESCRIPTION

Sika® Level SkimCoat is a one-component, easy to use and fast drying, cementitious skim mortar ideal for the repair or reprofiling of concrete, approved wood sub-floors, and correctly prepared ceramic or quarry tiles before the installation of Sika® Level products or final floor coverings. Can be installed as a true featheredge as well as filling voids and leveling defects up to 13 mm in depth.

USES

- Used to reprofile substrates or subfloor surfaces from feather edge to 13 mm prior to applying floor finishes
- Repair minor defects, holes, cracks and pre-fill non-moving joints and seams in concrete and wood substrates
- Suitable for use with radiant heating systems
- Installed as a skim coat over internal concrete substrates, masonite underlay or CFC / OSB / Plywood sheeting prior to subsequent flooring materials
- Can be used on walls and floors to smooth roughened/damaged concrete

CHARACTERISTICS / ADVANTAGES

- Easy to prepare and quick to apply
- Repairs new and renovate old floors
- Good adhesion to substrates, subfloors and stable adhesive residue
- Rapid setting; receives primers, levelers, adhesives and coverings without delay
- Excellent standard of finish can be achieved to allow direct application of coverings
- No MVER (Moisture Vapor Emission Rate) limits

PRODUCT INFORMATION

Packaging	18kg - Pack of 4 x 4.5 kg (10 lb.) 4 bags
Appearance / Colour	Gray powder
Shelf Life	12 months from date of production if stored properly in original, unopened and undamaged sealed packaging
Storage Conditions	Store dry at 5°–30 °C Protect from moisture. If damp, discard material

TECHNICAL INFORMATION

Compressive Strength	28 days	25 MPa	ASTM C-109 @ 23 °C 50 % R.H.
Flexural Strength	28 days	9 MPa	ASTM C-293 @ 23 °C 50 % R.H.
Reaction to Fire	Flame Spread: 0 Smoke Development: 0 (ASTM E-84)		

APPLICATION INFORMATION

Mixing Ratio	1.9 L of clean potable water per 4.5 kg bag	
Yield	3.2 m² at 3 mm thickness (Coverage figures do not include allowance for surface profile and porosity or material waste)	
Layer Thickness	Min. Feather edge	Max. 13 mm
Ambient Air Temperature	10–30 °C Where temperatures exceed 30 °C, refer to and follow ACI hot weather application and protection guidelines.	
Relative Air Humidity	< 75%	
Substrate Temperature	10–30 °C	
Pot Life	~ 10–20 minutes The temperature will affect the pot life: <ul style="list-style-type: none">▪ Above 23 °C will reduce the pot life and the working time.▪ Below 23 °C will extend the pot life and the working time.	
Waiting Time / Overcoating	Feather edge Polyurthane adhesives	20 minutes > 16 hours
Initial Set Time	20 - 30 minutes	(ASTM C-266)
Final Set Time	30 - 60 minutes	(ASTM C-266)

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

- For interior use only. Not suitable for exposed repairs or resurfacing.
- Do not exceed the recommended water dosage and use clean potable water.
- Do not apply onto dimensionally unstable substrates.
- Do not use on MDF, flakeboard, metallic or similar substrates and always comply with the final floor manufacturer's recommendations or instructions as to substrate or subfloor standards.
- Not suitable for use on water soluble adhesive residues or those which suffer from migration/bleeding.
- Do not expose to adverse drying conditions while curing. Protect from other trades, traffic, dust, dirt, high ambient temperatures and direct sunlight until final floor covering is completely dry.
- Sika® Level SkimCoat must be covered with an underlayment or final floor covering.
- Not suitable for applications where hydrostatic pressure is present.
- When used between non-porous substrate and non-breathable floor covering using water bond adhesives, follow industry and manufactures guidelines for minimum thickness (typically 3-4 mm) and flash times for adhesives.

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.

DIRECTIVE 2004/42/CE - LIMITATION OF EMISSIONS OF VOC

0 g/L

(EPA Method 24)

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

Surface preparation

- All substrates must be dry, stable, sound and free of all contaminants such as grease, oil, paint, wax, dust, curing and sealing compounds that will interfere with the bond of Sika® Level SkimCoat.
- Careful consideration should be given to the selection of the method of mechanical surface preparation.
- Immediately following mechanical preparation on some excessively porous substrates, outgassing will increase for a short period of time (approx. 48 hours) until equilibrium in slab vapor pressure and the ambient environment is reached.
- Concrete & Cement Substrates: Prepare concrete, cement and dense substrates, including ceramic, quarry and vinyl tiles by mechanical means, such as shot blasting, sandblasting, water-jetting, scarifying, or other appropriate methods, to achieve a matt, glaze free open textured surface. Weak surfaces should be removed, vacuum thoroughly. The compressive strength of the concrete substrate should be at least 20 MPa at 28 days with a minimum tensile strength of 1.4 MPa.
- Gypsum Surfaces: The compressive strength of a gypsum-based substrate should be at least 13.8 MPa. It must be fully cured and totally dry.
- Cutback Adhesive: Old water-soluble adhesives and old water-resistant adhesives should be removed. Old cutback can contain asbestos which is dangerous for the health so do not grind, sand or blast. Refer to the Resilient Floor Covering Institute's publication "recommended work practice for removal of resilient floor coverings" for instruction.
- OSB/Plywood Subfloors: They must consist of exterior-grade wood which complies with Group 1 CC Type, is engineer approved and either recommended or warranted by the wood manufacturer or final floor covering supplier. The OSB/plywood must then be suitably secured, bonded and prepared to a contaminant free and sound condition.
- Ensure wooden floors are well ventilated from below. Moisture Vapor Emission Rates (MVER) of the substrate should comply and meet the requirements of the proposed floor covering. Test substrates for

moisture content and consult the manufacturer of the final floor finish for advice.

Priming

- Not required when applied on top of concretes, cement substrates
- On gypsum based subfloors, 1 coat of Sika® floor-01 Primer is mandatory.
- Well prepared non-absorbent, smooth, sound substrates like ceramic tiles and terrazo or concrete treated with silicate products must be primed with Sikafloor-14 Prep n Prime.
- Refer to the respective PDS for complete and detailed instructions on the usage of each Primer.

MIXING

- As with all prebagged cement products, some settlement may have occurred during storage and transportation and dry blending of the material is recommended.
- Pour 1.9 L of potable water (~ 20 °C) into a suitably sized and clean mixing container, using a calibrated measuring jug, or similar, to ensure strict control of the water content (do not over-water). Add Sika® Level SkimCoat to the water, while slowly mixing, adding the complete contents of the 4.5 kg bag.
- Mixing with a high-speed drill (> 600 rpm) and a mortar/grout mixing paddle to blend water and powder for 2–3 minutes, continue mixing until a lump-free uniform mix has been produced.
- Avoid entrapment of air and excessive mixing as this will impact performance. Do not mix more mortar than can be used within the stated pot life and working time, taking into consideration ambient temperatures.

APPLICATION

- Using a flat edge steel trowel, apply Sika® Level SkimCoat immediately following mixing.
- Ensure that the compound is tightly trowelled into all defects, seams, and non-moving joints or across roughened surfaces as required.
- Where defects, details or roughened surfaces require repair or reprofiling to a depth greater than 13 mm, use the appropriate Sika® Level SkimCoat Level products.

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.

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Product Data Sheet

Sika® Level SkimCoat
December 2025, Version 01.01
020815030010000060

SikaLevelSkimCoat-en-NZ-(12-2025)-1-1.pdf

