

PRODUCT DATA SHEET

Sikafloor® Level Ultra

PREMIUM HIGH-PERFORMANCE SELF-LEVELLING & SMOOTHING COMPOUND

DESCRIPTION

Sikafloor® Level Ultra is a Fiber Reinforced Self Levelling Compound that can be applied on exterior or interior concrete substrates.

USES

Applied in combination with suitable materials from Sikafloor®, SikaBond® & Sikadur® ranges.

- Recommended underlayment for all Commercial & Domestic floor coverings
- Suitable to be applied prior to Sikafloor® epoxy or polyurethane colour coatings, in light to medium traffic areas (retail, commercial & car parks)
- Levelling of new or old concrete substrates

CHARACTERISTICS / ADVANTAGES

- Fiber reinforced
- Very Low VOC (~1 gram per litre)
- Green star certified
- High flexural strength
- High compressive strength
- Underfloor heating suitable
- Fast drying - Install tiles after 5-6hrs & moisture sensitive flooring after 7-8hrs @ 23°C
- Highly fluid with great self-healing properties
- Simply mix & apply - No slaking or re-mixing required
- Pump or manual application

APPROVALS / STANDARDS

Green Star (VOC-SCQMD Rule 1168)

PRODUCT INFORMATION

Chemical Base	Modified cement compound
Packaging	20kg Bag - 50 bags per pallet
Shelf Life	Unopened bags can be stored for up to 12 months in a cool, dry and weatherproof environment.
Storage Conditions	Bags must be stored off the floor. Avoid sitting bags in direct sunlight prior to application.
Appearance / Colour	Grey powder

TECHNICAL INFORMATION

Compressive Strength	1 day cure – 17MPa 28 day cure – 33MPa
Flexural Strength	28 day cure – 8MPa
Water Absorption	Porous

SYSTEM INFORMATION

System Structure	Porous Concrete	Moisture Barrier	Non-porous Surface
	Internal or external Concrete substrate	Concrete substrate (Up to 100% RH)	Tiles or epoxy coating
	Sikafloor® 01 Primer or Sikafloor® Level Pro Primer	Sikafloor®-158 W Fast Barrier	Sikafloor®-14 Prep N Prime
	Sikafloor® Level Ultra	Sikafloor®-14 Prep N Prime	Sikafloor® Level Ultra
	Subsequent suitable materials	Sikafloor® Level Ultra	Subsequent suitable materials
		Subsequent suitable materials	
Mixing Ratio	4.8 - 5 Litres of clean, cool water		
Yield	12L - 4m ² @ 3mm thickness		
Layer Thickness	1 - 50mm in a single application		
Ambient Air Temperature	10°C - 35°C		
Pot Life	20 Minutes @ 23°C		
Initial Set Time	75 Minutes @ 23°C		
Applied Product Ready for Use	<p>Allow 7 - 8 hours at 23°C prior to installing moisture sensitive flooring. Allow 5 - 6 hours at 23°C prior to installing tiles or stone.</p> <p>Note:</p> <ol style="list-style-type: none"> 1. Drying is dependent on thickness of application, temperature, air flow & relative humidity. Increased air flow will help with drying speeds in cooler temperatures. 2. Testing moisture content before applying flooring is recommended 3. Prior to applying Sikafloor® coatings, suitable mechanical preparation over Sikafloor® Level Ultra is recommended to create a surface profile improving bond strength. Preparation may include sanding, grinding or shot blasting for example. This process is then followed by a thorough clean (broom + vacuum) before Sikafloor® coatings are applied. 		

BASIS OF PRODUCT DATA

Manufactured in New Zealand.

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.

- All construction/expansion joints in existing concrete must be reflected through Sikafloor Level Ultra product as soon as possible to do so.
- Not recommended as a trafficable surface.
- Do not use on sloped surfaces that require drainage.

LIMITATIONS

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- Do not install Sikafloor® Level Ultra over wood floors, CFC flooring, parquet floors or metal substrates.
- Do not mix or apply Sikafloor® Level Ultra in temperatures below 10°C and above 35°C and under hot and windy conditions.
- Keep product cool prior to mixing and do not leave bags in direct sun for extended periods.
- Protect from hot or strong winds and extremes of temperature for 12hrs after being applied to avoid rapid moisture loss leading to cracking or crazing.

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

- High speed heavy duty electric drill, mixing paddle & suitable size bucket/vessel - 20L +
- Purpose built mechanical pump

SUBSTRATE QUALITY / PRE-TREATMENT

Concrete floors should be fully cured, structurally sound with a minimum pull off strength of 1.5 MPa, clean, dry (NZS 1884), and free of surface contaminants and dust for Eg. Concrete must be porous and accept water penetration. Test by lightly sprinkling water on various areas of the substrate. If water penetrates, then a good bond with a selected primer can be achieved. If water beads and fails to be absorbed by the concrete surface contaminants are present then loss of adhesion may occur. Contaminates that are present should be mechanically removed before installation. Concrete must be free of efflorescence and not subject to hydrostatic pressure. If the concrete substrate has efflorescence or high moisture (RH) and moisture sensitive flooring is being installed Sikafloor® Moisture Barrier System may be considered (Sikafloor®-158 W Fast Barrier + Sikafloor®-14 Prep N Prime + Sikafloor® Level Ultra). Sikafloor epoxy coatings require the Sikafloor Level Ultra to have a moisture content below 4%. Contact your local Sika® office for further information.

PRIMING;

Internal Porous Priming

- Sikafloor® 01 Primer – Mix ratio diluted 1:2 or 1:3 with clean water
- Sikafloor® Level Pro Primer - undiluted (Neat)

Note: Correct amount of priming liquid should always be applied to the prepared substrate giving good penetration and film build. Thin applications may result in pinholing in finished surface or debonding levelling compound from the substrate. Do Not allow primer to pool while drying. On particularly porous (mechanically prepared) surfaces or where the initial prime coat absorbs immediately a second coat is recommended.

Internal Non-Porous Priming

- Sikafloor®-14 Prep N Prime – undiluted (Neat)
- Note: When applying primer to Non-porous surface use a paint roller and apply one thin even coat. Sikafloor®-14 Prep N Prime must be completely dry (50min+) prior to applying Sikafloor® products. Chosen primer should completely dry prior to the application of Sikafloor® Levelling Systems.

MIXING

Mix the entire 20kg bag of Sikafloor® Level Ultra with 4.8 - 5 Litres of clean, cool water.

Slowly add powder to the water while mixing thoroughly for 3 minutes to a lumpfree consistency. Not mixing for the recommended time or additional water may result in product irregularities and possible product failure.

APPLICATION

Pour or Pump Sikafloor® Level Ultra, then spread with a long handled gauged spreader to heights asrequired. For touch-ups, use a flat steel trowel.

Note:

Freshly applied Sikafloor® Level Ultra must be protected from damp, condensation and all forms of water while curing for at least 24 hours.

Areas of application must have fresh airflow to assist with product hydration and drying. Closed off rooms with no fresh air will retard the curing/drying process and possibly lead to product failure.

CLEANING OF TOOLS

Clean tools and equipment with warm water and detergent while the product is still wet.

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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