

PRODUCT DATA SHEET

Sikafloor® Level Eco

ECONOMICAL HIGH BUILD LEVELLING & SMOOTHING COMPOUND

DESCRIPTION

Sikafloor® Level Eco is designed for high build applications & often being installed by pumping equipment on commercial & domestic projects.

USES

- Applied in combination with suitable materials from Sikafloor®, SikaBond®, Sikadur®, SikaTite® & Davco® ranges.
- Specially designed for pumping
- Recommended underlayment for all commercial & residential floor coverings
- Levelling of uneven concrete up to 75mm
- Suitable for new or old internal concrete substrates

CHARACTERISTICS / ADVANTAGES

- Very Low VOC (~1 gram per litre)
- Non-combustible
- Green Star Certified
- High strength
- Economical levelling solution
- Simply mix & apply - No slaking or re-mixing required
- Good pot life and working time - slow setting
- Pump or manual application

APPROVALS / CERTIFICATES

Green Star (VOC-SCQMD Rule 1168)

PRODUCT INFORMATION

Composition	Polymer modified cement compound
Packaging	20kg Bag - 48 bags per pallet
Appearance / Colour	Grey powder
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.

TECHNICAL INFORMATION

Compressive strength	1 day cure – 15MPa 28 day cure – 30MPa
Tensile strength in flexure	28 day cure – 5.5MPa
Reaction to fire	No hazardous combustion products are known
Water absorption	Porous

SYSTEMS

System structure	Porous Concrete	Moisture Barrier	Non-porous Surface
	Sikafloor® 01 Primer or Sikafloor® Level Pro Primer	Sikafloor®-158 W Fast Barrier	Sikafloor® 14 Prep 'N' Prime
	Sikafloor® Level Eco	Sikafloor® 14 Prep 'N' Prime	Sikafloor® Level Eco
	Subsequent suitable materials	Sikafloor® Level Eco	Subsequent suitable materials
		Subsequent suitable materials	

APPLICATION INFORMATION

Mixing ratio	3.5 - 3.8 Litres of clean, cool water
Yield	12L - 4m ² @ 3mm thickness
Layer thickness	3 - 75mm
Ambient air temperature	10°C - 35°C
Pot Life	20 Minutes @ 23°C
Initial set time	80 Minutes @ 23°C
Waiting time to overcoating	Allow 24+ hours at 23°C prior to the application of floor coverings. Drying is dependent on thickness of application, temperature, air flow & relative humidity. Increased air flow will help with drying speeds in cooler temperatures. Testing moisture content before applying floor coverings is recommended.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

Concrete floors should be fully cured, structurally sound, with a minimum pull off strength of 1.5 MPa, clean, dry, 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) Sikafloor® moisture barrier system may be considered (Sikafloor®-158 W Fast Barrier + Sikafloor® Prep 'N' Prime + Sikafloor® Level Eco). 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 primer 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. Average dry time ~20–30 min (per coat)

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.

EQUIPMENT

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

MIXING

Mix the entire 20kg bag of Sikafloor® Level Eco with 3.5 - 3.8 Litres of clean, cool water. Slowly add powder to the water while mixing thoroughly for 2 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 Eco, then spread with a long handled gauged spreader to heights as required. For touch-ups, use a flat steel trowel. If vinyls are being installed a skim coat of Sikafloor® Level Pro Finish (smoothing compound) may be required. 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 process and possibly lead to product failure.

Second applications:

If required, a second coat may be applied as soon as the first coat is firm enough to walk on without causing excessive damage, approximately 2 hours @ 23°C but no later than 4 hours @ 23°C.

This installation method is referred to as "wet-on-wet" and higher temperatures/air flow will mean this "wet-on-wet" second application time window is reduced, therefore the second coat should always be applied as soon as possible.

Note:

If the first application is allowed to dry past 4 hours @ 23°C, re-priming & subsequent applications should be applied the next day - Normal drying times apply (24+ hours @ 23°C)

IMPORTANT CONSIDERATIONS

LIMITATIONS

- Do not install Sikafloor® Level Eco over particleboard, hardwood floors, parquet floors or metal.
- Do not mix or apply Sikafloor® Level Eco 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
 - All construction/expansion joints in existing concrete must be reflected through Sikafloor® product as soon as possible to do so.
- Not recommended as a trafficable surface
- Do not use on sloped surfaces that require drainage
- Do not use in exterior applications

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Product Data Sheet

Sikafloor® Level Eco

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BASIS OF PRODUCT DATA

Manufactured in Australia.

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.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

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.

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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