BUILDING TRUST

PRODUCT DATA SHEET

Sikafloor® Level-30

HIGH PERFORMANCE INDUSTRIAL SELF-LEVELLING COMPOUND

DESCRIPTION

Sikafloor® Level-30 is a high performance polymer modified self-levelling compound for interior and exterior applications.

USES

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

- Internal or external areas
- Industrial medium to heavy load (including forklift pallet truck - with impact loading)
- Commercial & residential areas
- Fully trafficable (when sealed/densified or coated)
- Used to level/repair concrete substrates prior to Sikafloor® epoxy coatings
- Sikafloor® Level-30 meets the requirements of for;

> structural repair (Class R3 of EN 1504-3)
> restoration (Principle 3, method 3.1 of EN 1504-9)
> strengthening (principle 4, method 4.4 of EN 1504-9)

CHARACTERISTICS / ADVANTAGES

- Self smoothing
- Very high compressive & flexural strength
- Very high surface abrasion strength
- Controlled thermal expansion and contraction (moves with host concrete)
- Non-combustible
- Good workability and pot life
- Low shrinkage
- Fast setting and drying
- 3 hours walk on time (+23°C)
- Very low VOC

SUSTAINABILITY

- EC 1plus R: Very low emissions.

APPROVALS / CERTIFICATES

- Cement based screed CT-C40-F10-A12 according to EN 13813, declaration of performance 90432755, and provided with CE marking
- Cement based screed A1/A1fl according to EN 13813, declaration of performance 90432755, assessed by notified laboratory 1140, and provided with CE marking
- Cement based screed class R3 for the principles 3 (CR), 4 (SS) and 7 (RP) according to EN 1504-3, declaration of performance 36581792, assessed by notified laboratory 1139, and provided with CE marking

PRODUCT INFORMATION

Composition	Polymer modified rapid hardening cement.
Packaging	20kg Bags - 48 Bags per pallet
Appearance / Colour	Grey Powder
Shelf life	Unopened bags can be stored for up to 9 months in a cool, dry and weather proof environment.

Storage conditions	Bags must be stored off the floor. Avoid sitting bags in direct sunlight prior to application.

TECHNICAL INFORMATION

Compressive strength (EN 13892-2)

Time	Temperature	Value
24 hours	23 °C	18 MPa
28 days	23 °C	40 MPa

Tensile strength in flexure (EN 13892-2)

Time	Temperature	Value
24 hours	23 °C	3 MPa
28 days	23 °C	10 MPa

Tensile adhesion strength (EN 13892-8)

Time	Temperature	Value
28 days	23 °C	≥ 1.5 MPa

Coefficient of thermal expansion (EN 1770)

α ~16.3×10^{-6} 1/°C
(for temperature range -20 °C and +40 °C)

Water absorption (EN 13057)

W ~0.5 kg / (m^2 × $h^{0.5}$)

SYSTEMS

System structure

Industrial (sealed)	Industrial & decorative (coated)	Commercial & residential (underlay-ment)
Sikafloor® 01 Primer or Sikafloor® Level Pro Primer	Sikafloor® 01 Primer or Sikafloor® Level Pro Primer	Sikafloor® 01 Primer or Sikafloor® Level Pro Primer
Sikafloor® Level-30	Sikafloor® Level-30	Sikafloor® Level-30
Sikafloor® Curehard 24	Sikafloor® 263/264, Sikafloor® 264T	Subsequent suitable materials

APPLICATION INFORMATION

Mixing ratio	3.9L should be used when creating a slight fall on concrete. 4.1L should be used when levelling concrete.
Yield	12L - 4m2 @ 3mm
Layer thickness	3 - 30 mm
Ambient air temperature	+10 °C min. / +30 °C max.
Substrate temperature	+10 °C min. / +30 °C max.
Substrate pre-treatment	The concrete substrate must be sound and of sufficient compressive strength - 25 MPa with a minimum pull off strength of 1.5 MPa. Industrial applications should have a fresh mechanical profiled surface prior to applying primer. Concrete should be fully cured, structurally sound, clean, dry, and free of efflorescence, surface contaminates and dust for Eg. Concrete must 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. All Substrates should be moisture tested prior to the application of Sikafloor levelling systems. If concrete is high in moisture a suitable barrier & primer should be selected. Ambient temperature of surfaces and materials should be maintained at temperatures higher than 9°C. For suitable repairs to the substrate speak with a Sika Technical Representative in your state or area.

Pot Life

Temperature and Relative Air Humidity	Time
+23 °C / 50%	~ 15 minutes

The ambiant and water 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 to overcoating

Coatings	Layer Thickness	Waiting time
Impermeable coatings	**≤ 20 mm**	**24 hours[1]**
Sealing or densifying	≤ 20 mm	24 hours[1]
Impermeable coatings	≤ 30 mm	48 hours[1]
Sealing or densifying	≤ 30 mm	24 hours[1]

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

When overcoating Sikafloor® Level-30 always ensure the moisture content has achieved the required value for the coating product, as the waiting time will vary with the application thickness and ambient humidity. (Refer to the coating product data sheet)
A roughened profile surface must be achieved before Sikafloor® epoxy or polyurethane coatings are applied.
Sealing or densifying with Sikafloor® CureHard-24 is applied on smooth Sikafloor® Level-30 surface.

Applied product ready for use

At +20 °C and 50% r.h.

Foot traffic	~ 3 hours
Lightly serviceable	~ 24 hours
Fully serviceable	~ 7 days

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

MIXING

- When mixing manually place 3.9 - 4.1L of cool water into a suitable sized vessel then add a full bag (20kg) of Sikafloor® Level 30 powder slowly to the water while mixing continuously whith a high speed
- Additional water over the recommended amount stated may result in poor product performance and possible failure.
- Mix thoroughly for a minimum of 3 minutes with a suitable high speed drill and mixing paddle.
  - Mixing for the recommended time will provide maximum product performance.

Pumping:
Sikafloor® Level 30 may be applied by way of pumping device so long as mixing time is achieved.
Pump suppliers should be consulted for suitable recommendations. Test areas are recommended prior to applying large spaces.

Bulking:
5kg of clean 1 – 2mm aggregates may be mixed with 20kg of Sikafloor® Level 30. This volume will cover 1m² at 15mm or equal 15L of product.
Recommended build 10 – 50mm in one application.
Reduce water to 3.9 - 4L if using bulking aggregates.

APPLICATION

Pour or pump Sikafloor® Level 30 then spread with a long handled gauged rake, stand up trowel, screed bar to required thickness. For small touch-ups use a flat steel hand trowel. To help optimise colour consistency the use of a spike roller when first placed is advised.
Note: Freshly applied Sikafloor® Level 30 must be protected from damp, condensation and all forms of water while curing for at least 24 hours.

CLEANING OF EQUIPMENT

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

IMPORTANT CONSIDERATIONS

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.
Mechanically prepared surfaces or where the initial prime coat is absorbed immediately a second coat is recommended.
Dry time 30+ min @ 23°C (per coat)
Both *Sikafloor® 01 Primer & Sikafloor® Level PRO Primer* are suitable for interior & exterior applications.

LIMITATIONS

- Do not buff/grind within 24 hrs of application.
- All construction/expansion joints in existing concrete must be reflected through Sikafloor® Level 30 product as soon as possible to do so.
- Do not mix with other cement based screeds.
- No loading for at least 10 hours.
- When applying Sikafloor® Level-30 in unprotected exterior areas a 5mm gap should be allowed against any structural wall, then filled with suitable sealant when able to do so.
- Due to the natural variability of the raw materials of the self-levelling screeds, the finished surface may present some colour variations.
- The surface must be sealed for a final floor finish. Failure to do so may result in permanent staining and displeasing aesthetic appearance.
- Sikafloor® Level 30 is not suitable for permanently/fully submerged locations (ponds/pools)
- Not suitable for slopes or inclines > 0.5%.
- Protect from hot direct sunlight, hot strong winds and extremes of temperature to avoid cracking or crazing for 12hrs after being applied. Small superficial hairline cracks or crazing sometimes occurs under these conditions and do not constitute a reason for claim.

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.

GISCODE

ZP-1 - cement products, low in chromate.

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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