

PRODUCT DATA SHEET

Sikafloor® Level-30 (AU)

FAST-DRYING & HIGH-STRENGTH INDUSTRIAL SELF-LEVELLING COMPOUND

DESCRIPTION

Sikafloor® Level-30 (AU) is a very high strength versatile self-levelling compound that can be used as an underlayment, or overlay in residential, commercial & industrial 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
- Can be used in structural repair of concrete floors

FEATURES

- Fast drying & hardening
- Can be used as an underlayment, prior to flooring installations
- Can be used as an overlay (wearing surface)
- Very high compressive & flexural strength
- Very high surface abrasion strength
- Controlled thermal expansion and contraction
- Non-combustible
- 3 hours walk on time @ +23°C
- Very low VOC

CERTIFICATES AND TEST REPORTS

High strength cement based repair screed

- 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

PRODUCT INFORMATION

Composition	Polymer modified rapid hardening cement.
Packaging	20kg Bags - 48 Bags per pallet
Appearance and 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.
Density	Wet - 2.01kg/L Dry - 1.66kg/L
Compressive strength	1 day cure > 20MPa 28 day cure > 40MPa
Flexural-strength	1 day cure – 3MPa 28 day cure – 10MPa

Coefficient of thermal expansion	$\alpha \sim 16.3 \times 10^{-6} \text{ } 1/^{\circ}\text{C}$ Temperature range -10°C & $+40^{\circ}\text{C}$		
Reaction to fire	No hazardous combustion products are known		
Water absorption	Porous		
Mixing ratio	3.9L should be used when creating a slight fall on concrete. 4.1L should be used when levelling concrete.		
Yield	12L - 4m ² @ 3mm		
Layer thickness	Commercial & residential flooring applications 3 - 30 mm Industrial or coating/sealer applications 4 - 30mm		
Ambient air temperature	$+10^{\circ}\text{C}$ min. / $+30^{\circ}\text{C}$ max.		
Substrate temperature	$+10^{\circ}\text{C}$ min. / $+30^{\circ}\text{C}$ max.		
Pot Life	10 - 15 minutes @ 23°C		
Waiting time to overcoating	Subsequent Product	Layer Thickness	Waiting time
	Tiles, stone, pavers	3 - 30mm	$\sim 3 - 4$ hrs 23°C
	Vinyls, timbers, carpets, rubber	3 - 30mm	$\sim 4 - 5$ hrs 23°C
	Epoxy or polyurethane coatings	4 - 30mm	$\sim 7+$ hrs 23°C
	Sealing or densifying	4 - 30mm	~ 24 hrs 23°C
	All products	10 - 50mm with aggregate	~ 24 hrs 23°C
	1. Drying times are approximate and at 23°C with 50% R.H. and thus will be affected by changing substrate and ambient conditions, particularly the temperature and relative humidity. Times should always be adjusted for atmospheric conditions.		
	2. When coating Sikafloor® Level-30 (AU) with Sikafloor® epoxy or polyurethane a roughened profile surface must be achieved, along with the required moisture value for the coating product. (Refer to the coating product data sheet)		
	3. Sealing or densifying with Sikafloor® CureHard-24 is applied on smooth and clean Sikafloor® Level-30 (AU) surface with no surface prep required.		
	Note: Times are approximate and will be affected by changing substrate and ambient conditions, particularly temperature and relative humidity.		
Applied product ready for use	Foot traffic	~ 3 hours	
	Lightly serviceable	~ 24 hours	
	Fully serviceable	~ 7 days	
	Tested at $+23^{\circ}\text{C}$ and 50% relative humidity.		

SYSTEM INFORMATION

System structure	Industrial (sealed)	Industrial & decorative (coated)	Commercial & residential (underlayment)
	Suitable Sika porous primer, refer priming section	Suitable Sika primer, refer priming section	Suitable Sika primer, refer priming section
	Sikafloor® Level-30 (AU)	Sikafloor® Level-30 (AU)	Sikafloor® Level-30 (AU)
	Sikafloor® Curehard 24	Subsequent suitable Sikafloor® resin coating	Subsequent suitable materials

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.

IMPORTANT CONSIDERATIONS

- Do not buff/grind within 24 hrs of application.
- All construction/expansion joints in existing concrete must be reflected through Sikafloor® Level-30 (AU) 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 (AU) in unprotected exterior areas a 5mm gap should be allowed against any structural wall, then filled with suitable sealant when able to do so. Sika Abelflex can be used for these perimeter expansion joints.
- 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 (AU) 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.

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 substrates must have compressive strength >25 MPa with a minimum pull off strength of 1.5 MPa.
- Concrete shall have a concrete surface profile of CSP 2 or CSP 3 prior to applying primer.
- Concrete must be 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 and a loss of adhesion may occur. Contaminants that are present should be mechanically removed before installation.
- Concrete must be free of efflorescence and not subject to hydrostatic pressure. If the substrate has efflorescence or high moisture a Sika vapour barrier

shall be required, refer priming information in this document.

- For external applications ensure perimeter expansion joints are present prior to the application of Sikafloor® Level-30 (AU). Perimeter joints can be completed with Sika Abelflex filler. Do not pour Sikafloor® Level-30 (AU) hard up against perimeter walls.

PRIMING:

Porous Substrates can be primed with the following primers

- SikaTile 010 Secure Prime
- Davco PrimeX

Non-porous substrates can be primed with the following primers

- Sikafloor-14 Prep n Prime

High Moisture content substrates can be primed with the following epoxy vapour barriers

- Sikafloor 158 Fast Barrier
- Sikalastic Moisture Seal

Once the above epoxy vapour barriers have been installed a single coat of Sikafloor-14 Prep n Prime then needs to be applied before application of the Sikafloor® Level-30 (AU).

MIXING

- **Not mixing for the recommended time or additional water may result in product finish irregularities and possible failure.**
- **Only mix Sikafloor® Level 30 (AU) in full bags and not part bags.**
- **Avoid mixing for less than the specified time for best results.**

Single Bag Mixing

Mix the entire 20kg bag of powder with 3.9 - 4.1 Litres of clean, cool water. Slowly add powder to the water while mixing with a suitable electric drill and mixing paddle. Thoroughly mix at high speed for a minimum of 3 minutes to a lump free consistency.

Multi Bag Mixing Station

Pre-measure the correct amount of water for the number of bags being mixed. Add the water to the mixing station then slowly add the powder to the water while mixing. Ensure the product is thoroughly mixed for a minimum of 3 minutes from the last bag added to the mixing station.

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. Ensure pump machines are calibrated to avoid over watering of the mixture.

Extending:

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 4L if using aggregates for extending purpose.

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.

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.

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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Product Data Sheet

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