

Sikafloor® Level -66 (au)

Cementitious self-levelling, interior and exterior grade industrial screed for use 4-25 mm.

Product Description	Sikafloor® -Level -66 (au) is a one part, polymer modified, pumpable self levelling, normal setting, cementitious industrial grade screed for the levelling and smoothing of interior or exterior floors. It is suitable as wearing course or it can be overcoated to provide it with additional chemical or mechanical protection.
Uses	<p>Sikafloor® -Level -66 (au) can be applied manually or by pump to level floors at a thickness between 4 - 25 mm.</p> <ul style="list-style-type: none">■ Interior or exterior applications.■ Industrial applications – warehouse floors, car parks etc.■ Commercial applications – shops, restaurants etc.■ Will provide renewed wearing course to worn concrete surfaces, subject to exposure.■ Suitable for restoration work (Principle 3, method 3.1 of EN 1504-9).■ Suitable for structural strengthening (principle 4, method 4.4 of EN 1504-9).■ Suitable for preserving or restoring passivity (Principle 7, method 7.1 and 7.2 of EN 1504-9).
Characteristics / Advantages	<ul style="list-style-type: none">■ Available in grey and off white colours■ Self-levelling and good air release■ Fast application because of the good flow and cohesion of the fresh product■ Class R4 of EN 1504-3■ Easy to place by pump or manual application■ Capable of levelling surfaces from 4 up to 25 mm■ Low shrinkage. Good compaction■ Maintains good workability and joint healing throughout its pot life■ 10-12 hours walk on time (+20°C)■ Excellent surface appearance and hardness
Product Data	
Form	
Appearance / Colours	Powder Standard grey & off white
Packaging	20 kg bags
Storage	
Storage Conditions / Shelf Life	6 months from date of production if stored properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5°C and +30°C.
Technical Data	
Chemical Base	Polymer modified normal hardening cement.
Density	1.50 kg/l ± 0.05 (bulk powder)



	2.02 kg/l ± 0.03 (fresh mortar)	
Layer Thickness	4 mm min. / 25 mm max. Aggregate addition is not recommended to increase the application thickness.	
Compressive Strength	> 10 Mpa (after 24 hours / +20°C) > 34 Mpa (after 7 days / +20°C) > 47 Mpa (after 28 days / +20°C) for grey	(EN 13892-2)
Abrasion Resistance	13.98 cm ³ /50 cm ² (after 28 days / +20°C) Class A15	(Böhme method EN 13892-3)
System Information		
System Structure	Priming EpoCem [®] module or SikaTop [®] -110 EpoCem [®] . On porous surfaces, 2 coats of primer would be needed (coverage rate of 2-4m ² /kg or 0.3-0.5kg per prime coat) Levelling Apply to the required thickness 4 - 25 mm. Apply Sikafloor [®] -Level -66 (au) to the primer whilst in a tacky state. If primer loses tackiness re-apply primer. Multi layer application Two layers of Sikafloor [®] -Level -66 (au) can be applied successively with the following interlayer build-ups. Prime the concrete substrate with EpoCem [®] module primer. Whilst tacky apply the first layer of Sikafloor [®] -Level -66 (au).	
Application Details		
Consumption / Dosage	~ 1.70 ± 0.05 kg/m ² /mm This figure is theoretical and does not include for any additional material required due to surface porosity, surface profile, variations in level or wastage etc.	
Substrate Quality	The concrete substrate must be sound and of sufficient compressive strength (min. 25 N/mm ²) with a minimum pull off strength of 1.5 N/mm ² . The surface must be clean, dry and free of all contaminants e.g. dirt, oils, grease, coatings and surface treatments etc. If in doubt apply a test area first.	
Substrate Preparation	Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface. Weak concrete must be removed and surface defects such as blow holes and voids must be fully exposed. All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum.	
Application Conditions / Limitations		
Substrate Temperature	+8°C min. / +30°C max.	
Ambient Temperature	+8°C min. / +30°C max. For increased surface strength and best results, it is recommended to apply the mortar at ambient and substrate temperatures between 15°C and 25°C.	
Relative Air Humidity	< 75% max.	

Dew Point	Beware of condensation! The substrate and uncured floor must be at least 3°C above dew point to reduce the risk of condensation, blooming or cement laitance on the floor finish.											
Application Instructions												
Mixing	When mixing manually add the dry powder (20 kg) into a container with the clean water. The water required is 16 - 17% or between 3.2 and 3.4 litre per 20 kg bag of mortar depending on ambient conditions.											
Mixing Time	Mix thoroughly for a minimum of 3 minutes.											
Mixing Tools	Use an electric stirrer (< 500 rpm).											
Application Method / Tools	<p>Pump:</p> <p>Use a conventional floor screed dual stage mixer and pump and control the water dosage to achieve the required flow, measuring the final average flow diameter on a flat, clean, dry horizontal surface.</p> <table border="1"> <tr> <td>Cylinder according to EN 12706:2000</td> <td>ASTM C 230-90 / EN 1015-3</td> </tr> <tr> <td>Internal diameter: 30 mm</td> <td>Top internal diam: 70 mm</td> </tr> <tr> <td>Height: 50 mm</td> <td>Bottom internal diam.: 100 mm</td> </tr> <tr> <td></td> <td>Height: 60 mm</td> </tr> <tr> <td>Flow = 190 mm ± 10 mm (3l per 25 kg)</td> <td>Flow = 315 mm ± 20 mm (3l per 25 kg)</td> </tr> </table> <p>After placing onto the surface, apply by trowel or pin screed rake to the required thickness. The use of a spiked roller is not essential but it is recommended for improved surface homogeneity. Roll thoroughly with a spiked roller in two directions to remove any entrapped air, but do so quickly and just after it has been applied and move on. To not over-roll!</p> <p>Manual:</p> <p>Pour the mixed material onto the prepared surface and apply by trowel or pin screed rake to the required thickness. Roll thoroughly with a spiked roller in two directions to remove any entrapped air.</p>		Cylinder according to EN 12706:2000	ASTM C 230-90 / EN 1015-3	Internal diameter: 30 mm	Top internal diam: 70 mm	Height: 50 mm	Bottom internal diam.: 100 mm		Height: 60 mm	Flow = 190 mm ± 10 mm (3l per 25 kg)	Flow = 315 mm ± 20 mm (3l per 25 kg)
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Cleaning of Tools

Clean all tools and application equipment with water immediately after use. Hardened / cured material can only be removed mechanically.

Potlife

Conditions	Time
+23°C / 50% r.h.	30 minutes

The 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 / Overcoating

Suitable for overcoating with impermeable or moisture sensitive floors after drying (max. 3 % humidity); normally reached after 10 hours in 9mm thick.

Suitable for overcoating with tiles after 24 hours.

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 over coating Sikafloor® Level -66 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.

Notes on Application / Limitations

Do not mix with other cements or cement based screeds.

No loading for at least 8 hours.

Freshly applied Sikafloor® Level -66 must be protected from damp, condensation and water for at least 24 hours.

Do not exceed the recommended water dosage. Do not add more water when the product is starting to set.

Do not exceed the recommended thicknesses.

Temperatures below +20°C and high ambient relative humidity extend the drying times.

If Sikafloor® Level -66 does not provide an aesthetic finish, the product can always be overcoated.

Not suitable for slopes or inclines > 1.0 %.

Protect from direct sunlight, hot or strong winds and extremes of temperature just after application, to avoid cracking or crazing.

When overcoating with SikaCeram® or Sikabond® adhesives (or others), or Sikafloor® resins, additional mechanical preparation may be required to remove any cement laitance which may have formed during application due to excessive water in the mix or high ambient moisture causing bleeding.

At thicknesses greater than 4 mm or with floating screeds, an edge strip must be placed to separate the screed from the walls and other construction elements.

Curing Details**Applied Product ready for use**

At +20°C and 50% r.h.

Foot traffic	~ 10 – 12 hours
Lightly serviceable	~ 48 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.

Value Base

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.

Health and Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent Material Safety Data Sheet 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's 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 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 proprietary rights of third parties must be observed. All orders are accepted subject of our terms and conditions of sale. Users should always refer to the most recent issue of the Australian version of the Technical Data Sheet for the product concerned, copies of which will be supplied on request.

PLEASE CONSULT OUR TECHNICAL DEPARTMENT FOR FURTHER INFORMATION.



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