

PRODUCT DATA SHEET

Sikafloor®-263 SL

2-part epoxy covering for smooth and broadcasted flooring surfaces

DESCRIPTION

Sikafloor®-263 SL is a two part, multipurpose binder based on epoxy resin.
Suitable for use in hot and climatic conditions.

USES

Sikafloor®-263 SL may only be used by experienced professionals.

Sikafloor®-263 SL is used as:

- Self-smoothing and broadcast systems for concrete and cement screeds with normal up to medium heavy wear e.g. storage and assembly halls, maintenance workshops, garages, loading ramps etc.
- The broadcast system is recommended for multi-storey and underground car parks, maintenance hangars and for wet process areas, e.g. beverage and food industry

FEATURES

- Highly fillable,
- Good chemical and mechanical resistance,
- Easy application,
- Liquid proof,
- Gloss finish,
- Slip resistant surface possible.

PRODUCT INFORMATION

Composition	Epoxy	
Packaging	Part A	15.8 kg containers
	Part B	4.2 kg containers
	Part A+B	20 kg ready to mix units
Shelf life	24 months from date of production	
Storage conditions	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5°C and +30°C.	

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January 2024, Version 07.04

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SUSTAINABILITY

Conformity with LEED v2009 IEQc 4.2: Low-Emitting Materials - Paints and Coatings

CERTIFICATES AND TEST REPORTS

- Particle emission certificate Sikafloor®-263 SL CSM Statement of Qualification – ISO 14644-1, class 5– Report No. SI 0904-480 and GMP class A, Report No. SI 1008-533.
- Outgassing emission certificate Sikafloor®-263 SL CSM Statement of Qualification – ISO 14644-8, class 6,5 - Report No. SI 0904-480.
- Good biological Resistance in accordance with ISO 846, CSM Report No. 1008-533
- Fire classification in accordance with EN 13501-1, Report-No. 2007-B-0181/14, MPA Dresden, Germany, February 2007.
- Synthetic resin screed material according to EN 13813:2002.
- Coating for surface protection of concrete according to EN 1504-2:2004.
- Wear resistance, bond, compressive and flexural strength tested according to EN 13892:2003, certified by INCD URBAN-INCERC

Appearance and colour	Resin - part A:	coloured, liquid
	Hardener - part B	transparent, liquid
RAL 1017, 6010, 7032, 7035, 7037, 7045 Other colors on request. Under direct sun light there may be some discoloration & colour variation; this has no influence on the function and performance of the coating.		

Density	1.52-1.62
Solid content by mass	~100 %
Solid content by volume	~100 %

TECHNICAL INFORMATION

Shore D Hardness	~76 (7 days / +23 °C)	(DIN 53 505)
Abrasion resistance	~8..... ARO.5 (AR≤50µm) Test conditions: temperature of 23.3°C and relative humidity of 48.4%	SR EN 13892-4:2003
Compressive strength	~44.6 N/mm ² Test conditions: temperature of 25.3°C and relative humidity of 51% (Sikafloor®-263 SL mixed with quartz sand (0.1-0.4) mm)	SR EN 13892-2:2003
Flexural-strength	~26.9 N/mm ² Test conditions: temperature of 25.3°C and relative humidity of 51% (Sikafloor®-263 SL mixed with quartz sand (0.1-0.4) mm)	SR EN 13892-2:2003
Tensile adhesion strength	~3.3 N/mm ² (failure in concrete)..... Class B2.0 Test conditions: temperature of 25°C and relative humidity of 51%	SR EN 13813:2003
Temperature resistance	Exposure*	Dry heat
	Permanent	+50 °C
	Short-term max. 7 d	+80 °C
	Short-term max. 12 h	+100 °C
Short-term moist/wet heat* up to +80°C where exposure is only occasional (steam cleaning etc.). *No simultaneous chemical and mechanical exposure and only in combination with Sikafloor® systems as a broadcast system with approx. 3 - 4 mm thickness.		

SYSTEM INFORMATION

Systems	Self-smoothing system 1.0 mm	
	Primer	1–2 × Sikafloor®-161
	Wearing course	1 × Sikafloor®-263 SL + quartz sand (0.1–0.3 mm) Sikadur®-504
	Self-smoothing system 1.5 to 3.0 mm	
	Primer	1–2 × Sikafloor®-161
	Wearing course	1 × Sikafloor®-263 SL + quartz sand (0.1–0.3 mm) Sikadur®-504
	Self-smoothing system approx. 5.0 mm	
	Primer	1–2 × Sikafloor®-161
	Wearing course	1 × Sikafloor®-263 SL + quartz sand (0.3–1.2 mm) Sikadur®-506
	Broadcast system approx. 4.0 mm	
	* Primer	1–2 × Sikafloor®-161
	Base coat	1 × Sikafloor®-263 SL + quartz sand (0.1–0.3 mm) Sikadur®-504
	Broadcasting	quartz sand 0.4–0.7 mm (Sikadur®-507) broadcast to excess
	Seal coat	1 × Sikafloor®-264
* Note: In cases of limited exposure and normal absorbent concrete substrates priming with Sikafloor®-156/-161 is not mandatory.		

APPLICATION INFORMATION

Mixing ratio	Part A : part B = 79 : 21 (by weight)			
Consumption	Coating System	Product	Consumption	
	Priming	Sikafloor®-161	1–2 × 0.35–0.55 kg/m ²	
	Levelling (optional)	Sikafloor®-161 levelling mortar	Refer PDS of Sikafloor®-161	
	Self-smoothing wearing course (Film thickness ~1.0mm)	1 pbw Sikafloor®-263 SL + 0.4 pbw Sikadur®-504	1.5 kg/m ² mixture (1.0 kg/m ² binder + 0.5 kg/m ² filler)	
	Self-smoothing wearing course (Film thickness ~1.5mm–3.0mm)	1 pbw Sikafloor®-263 SL + 1 pbw Sikadur®-504	1.9 kg/m ² mixture per mm layer thickness (0.95 kg/m ² binder + 0.95 kg/m ² filler)	
	Self-smoothing wearing course (Film thickness ~5.0mm)	1 pbw Sikafloor®-263 SL + 1.8 pbw Sikadur®-506	10.0 kg/m ² mixture (3.6 kg/m ² binder + 6.4 kg/m ² Sikadur®-506)	
	Broadcast system (Film thickness ~4.0mm)	1 pbw Sikafloor®-263 SL + 1.2 pbw Sikadur®-504 + broadcasting Sikadur®-507 + seal coat Sikafloor®-264	2.0 kg/m ² binder + 2.4 kg/m ² filler ~ 6.0 kg/m ² ~ 0.3–0.7 kg/m ²	
Note: These figures are theoretical and do not allow for any additional material required due to surface porosity, surface profile, variations in level or wastage etc.				
Ambient air temperature	+10 °C min. / +30 °C max.			
Relative air humidity	80 % r.h. 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 or blooming on the floor finish. Note: Low temperatures and high humidity conditions increase the probability of blooming.			
Substrate temperature	+10 °C min. / +30 °C max.			
Substrate moisture content	< 4 % pbw moisture content. Test method: Sika®-Tramex meter, CM-measurement or Oven-dry-method. No rising moisture according to ASTM (Polyethylene-sheet).			
Pot Life	Temperature	Time		
	+10 °C	~ 60 minutes		
	+20 °C	~ 30 minutes		
	+30 °C	~ 15 minutes		
Curing time	Before overcoating Sikafloor®-263 SL allow:			
	Substrate temperature	Minimum	Maximum	
	+10 °C	30 hours	3 days	
	+20 °C	24 hours	2 days	
	+30 °C	16 hours	1 day	
Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.				
Applied product ready for use	Temperature	Foot traffic	Light traffic	Full cure
	+10°C	~ 72 hours	~ 6 days	~ 10 days
	+20°C	~ 24 hours	~ 4 days	~ 7 days
	+30°C	~ 18 hours	~ 2 days	~ 5 days
Note: Times are approximate and will be affected by changing ambient conditions.				

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

FURTHER INFORMATION

Substrate quality & Preparation

Please refer to Sika Method Statement: "EVALUATION AND PREPARATION OF SURFACES FOR FLOORING SYSTEMS".

Application instructions

Please refer to Sika Method Statement: "MIXING & APPLICATION OF FLOORING SYSTEMS".

Maintenance

Please refer to "Sikafloor®- CLEANING REGIME".

IMPORTANT CONSIDERATIONS

- Do not apply Sikafloor®-263 SL on substrates with rising moisture.
- Do not blind the primer
- Freshly applied Sikafloor®-263 SL should be protected from damp, condensation and water for at least 24 hours.
- For areas with limited exposure and normally absorbent concrete substrates priming with Sikafloor®-156/-161/-160 is not necessary for roller or textured coating systems.
- For roller / textured coatings: Uneven substrates as well as inclusions of dirt cannot and should not be covered by thin sealer coats. Therefore both substrate and adjacent areas must always be prepared and cleaned thoroughly prior to application.
- The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.
- For exact colour matching, ensure the Sikafloor®-263 SL in each area is applied from the same control batch numbers.
- Under certain conditions, underfloor heating or high ambient temperatures combined with high point loading, may lead to imprints in the resin.
- If heating is required do not use gas, oil, paraffin or other fossil fuel heaters, these produce large quantities of both CO₂ and H₂O water vapour, which may adversely affect the finish. For heating use only electric powered warm air blower systems

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.

DIRECTIVE 2004/42/CE LIMITATION OF EMISSIONS OF VOC

According to the EU-Directive 2004/42, the maximum allowed content of VOC (Product category IIA / j type sb) 500 g/l (Limit 2010) for the ready to use product. The maximum content of Sikafloor®-263 SL is < 500 g/l VOC for the ready to use product.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

Concrete substrate must be sound and of sufficient compressive strength (minimum 25 N/mm²) with a minimum pull off strength of 1.5 N/mm².

- The substrate must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc.
- 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.
- Repairs to the substrate, filling of blowholes/voids and surface levelling must be carried out using appropriate products from the Sikafloor®, Sikadur® and Sikagard® range of materials.
- All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush or vacuum.
- The concrete or screed substrate has to be primed or levelled in order to achieve an even surface. High spots must be removed by e.g. grinding.

MIXING

Prior to mixing, stir part A mechanically. When all of part B has been added to part A, mix continuously for 3 minutes until a uniform mix has been achieved. When parts A and B have been mixed, add the quartz sand and if required the Extender T and mix for a further 2 minutes until a uniform mix has been achieved. To ensure thorough mixing pour materials into another container and mix again to achieve a consistent mix. Over mixing must be avoided to minimise air entrainment.

Mixing Tools

Sikafloor®-263 SL must be thoroughly mixed using a low speed electric stirrer (300 - 400 rpm) or other suitable equipment. For the preparation of mortars use a forced action mixer of rotating pan, paddle or trough type. Free fall mixers should not be used.

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APPLICATION

Prior to application, confirm substrate moisture content, relative air humidity and dew point. If > 4 % pbw moisture content, Sikafloor® EpoCem® may be applied as a T.M.B. (temporary moisture barrier) system.

Primer:

Make sure that a continuous, pore free coat covers the substrate. If necessary, apply two priming coats. Apply Sikafloor®-156/-161/-160 by brush, roller or squeegee.

Preferred application is by using a squeegee and then backrolling crosswise.

Levelling:

Rough surfaces need to be levelled first. Therefore use e.g. Sikafloor®-156/-161/-160 levelling mortar (see PDS).

Wearing course smooth:

Sikafloor®-263 SL is poured, spread evenly by means of a serrated trowel.

After spreading the material evenly, turn the serrated trowel and smooth the surface in order to achieve an aesthetically higher grade of finish.

Roll immediately in two directions with a spiked roller to ensure even thickness.

Broadcast system:

Sikafloor®-263 SL is poured, spread evenly by means of a serrated trowel.

Then, level and remove any entrapped air with a spiked roller and after about 15 minutes (at +20 °C) but before 30 minutes (at +20 °C), broadcast with quartz sand, at first lightly and then to excess.

Seal coat:

Sikafloor®-264 as seal coat can be applied by short piled roller (crosswise).

CLEANING OF EQUIPMENT

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

MAINTENANCE

To maintain the appearance of the floor after application, Sikafloor®-263 SL must have all spillages removed immediately and must be regularly cleaned using rotary brush, mechanical scrubbers, scrubber dryer, high pressure washer, wash and vacuum techniques etc using suitable detergents and waxes

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

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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Sikafloor-263SL-en-ET-(01-2024)-7-4.pdf