

PRODUCT DATA SHEET

Sikafloor®-263 SL

SELF-SMOOTHING PIGMENTED EPOXY RESIN FOR FLOORING APPLICATION

DESCRIPTION

Sikafloor®-263 SL is a two part (filler supplied separately), self-smoothing, pigmented, epoxy resin for flooring application. Suitable for use in hot and tropical climatic conditions.

USES

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

Sikafloor®-263 SL is used as self-smoothing system for concrete and cement screeds with medium to heavy wear, e.g. for:

- Storage warehouses
- Assembly halls
- Maintenance workshops
- Garages and car parks
- Loading bays
- Aircraft hangars
- Plant rooms
- Clean rooms
- Production areas
- Dry food processing plants
- Pharmaceutical manufacturing

CHARACTERISTICS / ADVANTAGES

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

SUSTAINABILITY

- Sikafloor®-263 SL is certified according "Low Emitting Materials as per Al Sa'fat - Dubai Green Building Evaluation System" by Dubai Central Laboratory (DCL), certificate No. CL17020432
- LEED Rating: Sikafloor®-263 SL conforms to the requirements of LEED EQ Credit 4.2: Low-Emitting Materials: Paints and Coatings with VOC Content <100 g/l

APPROVALS / CERTIFICATES

- Tested according to ASTM E648-15 (class I): Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source.
- Fire classification in accordance with EN 13501-1, Report-No. 2007-B-0181/14, MPA Dresden, Germany, February 2007.
- 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.
- Good biological Resistance in accordance with ISO 846, CSM Report No. 1008-533



PRODUCT INFORMATION

Composition	Pigmented epoxy resin		
Packaging	Please refer to local country price list for available packaging sizes:		
	Part A	15.8 kg containers	
	Part B	4.2 kg containers	
	Part A + B	20 kg ready to mix units	
	Part A	19.75 kg containers	
	Part B	5.25 kg containers	
	Part A + B	25 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.		
Appearance and colour	Resin - Part A	Coloured, liquid	
	Hardener - Part B	Transparent, liquid	
	Available in various colour shades, please request Sika sales representative for colour chart. Under direct sun light there may be some discolouration and colour variation; this has no influence on the function and performance of the coating.		
Density	Part A	~1.50 kg/l	(DIN EN ISO 2811-1)
	Part B	~1.00 kg/l	
	Mixed resin	~1.44 kg/l	
	Filled resin in ratio (1:1) with Sikadur®-504	~1.83 kg/l	
	Filled resin in ratio (1:1.25) with Sikadur®-504	~1.89 kg/l	
		Note: All Density values at +23 °C.	
Solid content by mass	~100 % Note: Total solid epoxy composition acc. to the test method Deutsche Bauchemie e.V. (German Association for construction chemicals)		
Solid content by volume	~100 % Note: Total solid epoxy composition acc. to the test method Deutsche Bauchemie e.V. (German Association for construction chemicals)		
Volatile organic compound (VOC) content	< 100 g/l	(US EPA 24)	
TECHNICAL INFORMATION			
Shore D Hardness	~75 (7 d / +23 °C)	(DIN 53 505)	
Abrasion resistance	<50 mg (CS 10/1000/1000) (28 d / +23 °C)	(ASTM D4060)	
Compressive strength	>60 N/mm ² (Unfilled resin, 28 d / +23 °C)	(ASTM D695)	
Tensile adhesion strength	> 1.5 N/mm ² (failure in concrete)	(ASTM D4541)	
Service temperature	Exposure*	Dry heat max.	
	Permanent	+50 °C	
	Short-term max. 7 d	+80 °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 approximately 3 to 4 mm thickness.		
Temperature resistance	Reaction to Fire (Critical Radiant Flux): Classification: Class I	(ASTM E648)	

Chemical resistance

Resistant to many chemicals.
Contact Sika Technical Services department for further information.

SYSTEM INFORMATION**Systems**

Please refer to the system data sheet of:

Sikafloor® MultiDur ES-24	Smooth unicolour epoxy floor covering
Sikafloor® MultiDur EB-24	Broadcast unicolour epoxy floor covering

APPLICATION INFORMATION**Consumption**

~1.6 - 2.0 kg/m²/mm (depending on filling grade) applied as a self-smoothing wearing course, as follows:

Product	Application thickness	Mixing ratio Epoxy resin : Quartz sand	Consumption per 1mm thickness
Sikafloor®-263 SL +Sikadur®-504	1.0 - 2.0 mm	1 : 0.4	~1.6 kg/m ² /mm
Sikafloor®-263 SL +Sikadur®-504	1.5 - 2.5 mm	1 : 0.8	~1.8 kg/m ² /mm
Sikafloor®-263 SL +Sikadur®-504	2.0 - 3.0 mm	1 : 1	~1.85 kg/m ² /mm
Sikafloor®-263 SL +Sikadur®-504	2.5 - 4.0 mm	1 : 1.25	~1.9 kg/m ² /mm
Sikafloor®-263 SL +Sikadur®-513	4.0 - 6.0 mm	1 : 1.8	~2.0 kg/m ² /mm

Note: Sikadur®-504 - quartz sand filler - size 0.08 - 0.20 mm

Note: Sikadur®-513 - quartz sand filler - size 0.00 - 0.85 mm

Note: For additional and more detailed information please refer to General Method Statement.

Note: Always prime the surface before application of self-smoothing layer.

Note: These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level or wastage etc.

Note: Related system data sheets: Sikafloor® Multidur ES-24 and Sikafloor® Multidur EB-24.

Layer thickness

Filled resin (please refer to section "Consumption"):

Min. 1 mm

Max. 6 mm

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).

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Pot Life	Temperature	Time
	+10 °C	~60 min
	+20 °C	~30 min
	+30 °C	~15 min

Waiting time to overcoating	Before overcoating Sikafloor®-263 SL allow:		
	Substrate temperature	Minimum	Maximum
	+10 °C	30 h	3 d
	+20 °C	24 h	2 d
	+30 °C	16 h	1 d

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

General Method Statement

Please refer to GMS Sikafloor®-263 SL - Self-smoothing epoxy resin

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.
- 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

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

EQUIPMENT

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 epoxy mortars use a forced action mixer of rotating pan, paddle or trough type. Free fall mixers should not be used.

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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.

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.

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®-151 /-161 /-161 G 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®-151 /-161 /-161 G levelling mortar (see Product Data Sheet).

Wearing course smooth:

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

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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