Product Data Sheet
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Construction

Sikafloor® -263 SL

2-part epoxy self-smoothing and broadcast system

Product Description	Sikafloor® -263SL is a two part, economic, multi purpose binder A three based on epoxy resin. "Total solid epoxy composition acc. to the test method of Deutsche Bauchemie"
Uses	■ 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.
Advantages	■ Highly fillable ■ Good chemical and mechanical resistance ■ Easy application ■ Economical ■ Liquid proof. ■ Gloss finish. ■ Slip resistant surface possible.
Approval / Standards	Sikafloor®-263SL conforms to the requirements of LEED EQ Credit 4.2: Low-Emitting Materials: Paints & Coatings SCAQMD Method 304-91 VOC Content < 100 g/l
Product Data **Colour**	Resin - part A: coloured, liquid Hardener - part B: transparent, liquid Light grey (approx. RAL 7032) Other colours on request.
Packaging	Ready for use pre-proportioned units at 30 kg (A+B+C) (Comp. A: 11.85 kg. & Comp. B: 3.15 kg. & Comp. C: 15 kg. **or** 18.75kg.)
Storage	Store in dry condition at temperatures between + 5°C and + 30°C.
Shelf life	12 months from date of production if stored properly in original, unopened and undamaged packing
Technical Data **Chemical Base**	Epoxy
Density	Comp. (A) : ~ 1.50 kg/l Comp. (B) : ~ 1.00 kg/l Comp. (A+B) : ~ 1.43 kg/l Filled resin 1 : 1 ~ 1.84 kg/l OR Filled resin 1 : 1.25 ~ 1.84kg/l All Density values at +23°C
Bond Strength (after 28 days at 23°C)	> 1.5 N/mm² (on dry concrete without primer, concrete failure). (DIN 53 232)
Solid Content	~ 100% (by volume) / ~ 100% (by weight)
Compressive Strength	Resin: ~ 60 N/mm² (28 days / +23° C) (EN 196- 1)
Flexural Strength	Resin: ~ 30 N/mm² (28 days / +23° C) (EN 196- 1)
Shore D Hardness	76 (7 days / +23° C) (DIN 53 503)
Abrasion Resistance	0.070 gm. (Loss in weight % by1000 cycle -8 days at 23°C) (DIN 53 109)

Resistance
Chemical Resistance

Resistant to many chemicals. Please ask for a detailed chemical resistance table.

Thermal 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.

Systems Information

System Structure

Self levelling system (1.5 – 3.0 mm) thickness.
Primer: 1 X Sikafloor® -161
Wearing course: 1 X Sikafloor® -263SL + quartz sand (0.1 – 0.3 mm)

Broadcast system approx. 4.0 mm thickness.
Primer: 1 X Sikafloor® -161
Base coat: 1 X Sikafloor® -263SL + quartz sand (0.1 – 0.3 mm)
Broadcasting : quartz sand (0.4 – 0.7 mm) broadcast to excess
Seal coat: 1 X Sika floor® -264

Application Details

Mixing Ratio
(Parts by weight)

Part A : Part B = 79 : 21 (by weight)
(A+B) : C (1 : 1)

Consumption / Dosage

Coating System	Product	Consumption
Primer	Sikafloor® -161	Approx .0.2 -0.5 kg/m²
Levelling (optional)	Sikafloor® -161 levelling mortar	Refer to PDS of Sikafloor® -161
Self-smoothing wearing course (Film thickness ~ 1.5 – 3.0 mm)	1 pbw Sikafloor® -263 SL 1 pbw quartz sand (0.1 – 0.3 mm)	1.9 kg/m² mixture (0.95 kg/m² binder + 0.95 kg/m² quartz sand) per mm layer thickness.
Broadcast system (Film thickness ~ 4.mm)	1 pbw Sikafloor® -263 SL 1 pbw quartz sand (0.1 – 0.3 mm) + Broadcasting quartz sand 0.4 – 0.7 mm) + Seal coat Sikafloor® -264	1.9 kg/m² 2.0 kg/m² ~ 6.0 kg/m² ~ 0.7 kg/m²

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

Substrate Quality

The concrete substrate must be sound and of sufficient compressive strength (minimum 25 N/mm^2) with a minimum pull off strength of 1.5 N/mm^2

The substrate must be clean, dry and free of all contaminants such as dirt, oil,

If in doubt, apply a test area first.

Substrate preparation

The substrate must be structurally sound and level, clean, dry and free from all traces of loose material, laitance, oil and grease. Any unsound material must be removed.

Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed.

Repair to the substrate, filling of blowholes/voids and surface levelling can be carried out using appropriate products from the Sikafloor®,Sikadur® and Sikagard® range of materials.

The concrete or screed substrate has to be primed or levelled in order to achieve an even surface.

Application

Limitations

- Maximum permitted gradient 3%.
- Substrate temperature must be 3°C above measured dew point.
- Maximum relative humidity 80%.
- Cementitious substrate must be at least 3 weeks old.
- Maximum moisture content of substrate ≤ 4%.

Priming

Prime with Sikafloor® - 161 (see separate data sheet). Pour the entire amount of component (B) onto Component (A) container while mixing, continue mixing till homogenous consistency is achieved. Apply with suitable brush in a rate 0.2 - 0.3 kg/m² depending upon the conditions of the substrate.

Mixing

Stir component (A) thoroughly with an electric stirrer prior to batching. Add component (B) in the correct mix ratio and mix for 2-3 minutes at a low speed, when the two components are well mixed, add component (C) gradually while mixing (a little at a time) and mix for a further 3 minutes at low speed.

Method of Application

Apply an even layer of the mixed material onto the prepared primed substrate using a notched trowel or spreader (Rubber or steel, 6-7mm notches). Roll immediately with a spiked roller to ensure uniform thickness and remove entrapped air.

Use a smaller flooring trowel or spreader (4-5mm notches) around edges of floor.

Broadcast system

Sikafloor® -263 SL is poured spread evenly by mean of serrated trowel.

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

Pot life

Temperature	Time
+10°C	~ 50 minutes
+20°C	~ 25 minutes
+30°C	~ 15 minutes

Waiting Time / Overcoating

Before applying Sikafloor® -263 SL on Sikafloor® -161 allow:

Substrate temperature	Minimum	Maximum
+10°C	24 hours	3 days
+20°C	12 hours	2 days
+30°C	8 hours	1 days

Before applying Sikafloor® -263 SL on 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 days

Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.

Notes on Application / Limitations

Do not apply Sikafloor® -263 SL on substrates with rising moisture.

Do not blind the primer

Freshly applied Sikafloor® -263 SL must be protected from damp, condensation and water for at least 24 hours.

Avoid puddles on the surface with the primer.

For exact colour matching, ensure the Sikafloor® -263 SL in each area is applied from the same control batch numbers.

Curing Details

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.

Cleaning

Clean all tools and equipment immediately after use with Colma-Cleaner. Once hardened, the material can only be removed mechanically. Wash soiled hands and skin thoroughly with hot soapy water.

Construction

Safety Instructions Ecology	In a liquid state comp. (A+B) can contaminate water. Do not dispose of into water or soil but according to local regulations
Transportation	Comp. (A): Non-hazardous. Comp. (B): Non-hazardous.
Safety precautions	This product can cause skin irritation to persons with sensitive skin. Always rub barrier cream into hands and exposed skin before starting work. Wear protective clothing (gloves and goggles). If Sikafloor®- 263SL is accidentally splashed into the eyes, nose, mouth or throat, flush immediately with plenty of clean, warm water and seek medical attention without delay.
Toxicity	Comp. (A): Class 4, under the relevant Swiss health and safety codes. Comp. (B): Class 4.

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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