

**Product Data Sheet**  
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Sikafloor®-263 SL

## Sikafloor®-263 SL

### 2-part Epoxy self-smoothing and broadcast system

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<b>Product Description</b>	Sikafloor®-263 SL is a two part, economic, multi purpose binder based on epoxy resin.
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<b>Uses</b>	<ul style="list-style-type: none"><li>■ Self-smoothing and broadcast screed 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.</li><li>■ The broadcast screed system is recommended for wet process areas, e.g. in beverage industry, food industry, maintenance hangars etc.</li></ul>
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<b>Characteristics / Advantages</b>	<ul style="list-style-type: none"><li>■ Highly fillable</li><li>■ Good chemical and mechanical resistance</li><li>■ Easy application</li><li>■ Economical</li><li>■ Liquid proof</li><li>■ Solvent-free</li><li>■ Gloss finish</li><li>■ Slip resistant surface possible</li></ul>
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#### Product Data

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##### Form

<b>Appearance / Colours</b>	Resin - part A: coloured, liquid Hardener - part B: transparent, liquid Extended colour range RAL 1001, 3009, 3013, 5010, 6010, 7032, 7035 & 7037 Other colours on request. Under direct sun light there may be some discolouration and colour variation; this has no influence on the function and performance of the coating.
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<b>Packaging</b>	Part A: 220 kg drums Part B: 177 kg, 59kg drums Part A+B: 1 Drum Part A (220 kg) + 1 drum Part B (59 kg) = 279 kg 3 Drums Part A (220 kg) + 1 Drum Part B (177 kg) = 837 kg
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Construction



## Storage

<b>Storage Conditions / Shelf-Life</b>	12 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.
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## Technical Data

<b>Chemical Base</b>	Epoxy
<b>Density</b>	Part A: ~ 1.50 kg/l Part B: ~ 1.00 kg/l Mixed resin: ~ 1.43 kg/l Filled resin 1 : 1: ~ 1.84 kg/l  (DIN EN ISO 2811-1)  All Density values at +23°C.
<b>Solid Content</b>	~ 100% (by volume) / ~ 100% (by weight)

## Mechanical / Physical Properties

<b>Compressive Strength</b>	Resin: ~ 60 N/mm <sup>2</sup> (28 days / +23°C)	(EN 196-1)
<b>Flexural Strength</b>	Resin: ~ 30 N/mm <sup>2</sup> (28 days / +23°C)	(EN 196-1)
<b>Bond Strength</b>	> 1.5 N/mm <sup>2</sup> (failure in concrete)	(ISO 4624)
<b>Shore D Hardness</b>	76 (7 days / +23°C)	(DIN 53 505)
<b>Abrasion Resistance</b>	70 mg (CS 10/1000/1000) (8 days / +23°C)	(DIN 53 109 (Taber Abrader Test))

## Resistance

<b>Chemical Resistance</b>	Resistant to many chemicals.
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### 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.

## System Information

<b>System Structure</b>	<i>Self-smoothing screed 1.5 - 3.0 mm:</i> Primer: 1 x Sikafloor®-161 Wearing course: 1 x Sikafloor®-263 SL + quartz sand (0.1 - 0.3 mm)  <i>Broadcast system approx. 4 mm:</i> Primer*: 1 x Sikafloor®-161 Base coat: 1 x Sikafloor®-263 SL + quartz sand (0.1 - 0.3 mm) Broadcasting: quartz sand (0.4 - 0.7 mm) broadcast to excess Seal coat: 1 x Sikafloor®-264
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## Application Details

### Consumption / Dosage

Coating System	Product	Consumption
Primer	Sikafloor®-161	0.35 - 0.55 kg/m <sup>2</sup>
Levelling (optional)	Sikafloor®-161 levelling mortar	Refer to Sikafloor®-161 product data sheet
Self-smoothing screed (Film thickness ~ 1.5 - 3.0 mm)	1 pbw Sikafloor®-263 SL 1 pbw quartz sand (0.1 - 0.3 mm)	1.9 kg/m <sup>2</sup> mixture (0.95 kg/m <sup>2</sup> binder + 0.95 kg/m <sup>2</sup> quartz sand) per mm layer thickness
Broadcast screed (Film thickness ~ 4.0 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	2.00 kg/m <sup>2</sup> 2.00 kg/m <sup>2</sup> ~ 6.0 kg/m <sup>2</sup> ~ 0.7 kg/m <sup>2</sup>

These 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<sup>2</sup>) with a minimum pull off strength of 1.5 N/mm<sup>2</sup>.

The substrate must be clean, dry and free of all contaminants such as dirt, oil, 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 blowholes and voids must be fully exposed.

Repairs 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.

High spots must be removed by e.g. grinding.

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** +10°C min. / +30°C max.

**Ambient 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).

**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.

## Application Instructions

<b>Mixing</b>	Part A : part B = 79 : 21 (by weight)
<b>Mixing Time</b>	<p>Prior to mixing, stir part A mechanically. When all of part B has been added to part A, mix continuously for 2 minutes until a uniform mix has been achieved.</p> <p>When parts A and B have been mixed, add the quartz sand 0.08 - 0.25 mm and/or Sikafloor® Filler-1 and mix for a further 2 minutes until a uniform mix has been achieved.</p> <p>To ensure thorough mixing pour materials into another container and mix again to achieve a consistent mix.</p> <p>Over mixing must be avoided to minimize air entrainment.</p>

<b>Mixing Tools</b>	Sikafloor®-263 SL must be thoroughly mixed using a low speed electric stirrer (300 - 400 rpm) or other suitable equipment.
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<b>Application Method / Tools</b>	<p>Prior to application, confirm substrate moisture content, r.h. and dew point.</p> <p>If &gt; 4% pbw moisture content, Sikafloor® EpoCem® may be applied as a T.M.B. (temporary moisture barrier) system.</p> <p><i>Levelling:</i> Rough surfaces need to be levelled first. Therefore use e.g. Sikafloor®-161 levelling mortar (see PDS).</p> <p><i>Self smoothing screed:</i> 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.</p> <p><i>Roll immediately in two directions with a spiked roller to ensure even thickness.</i></p> <p><i>Broadcast screed system:</i> 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.</p>
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<b>Cleaning of Tools</b>	Clean all tools and application equipment with Thinner C immediately after use. Hardened and/or cured material can only be removed mechanically.
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<b>Potlife</b>	<table border="1"><thead><tr><th>Temperatures</th><th>Time</th></tr></thead><tbody><tr><td>+10 °C</td><td>~ 50 minutes</td></tr><tr><td>+20 °C</td><td>~ 25 minutes</td></tr><tr><td>+30 °C</td><td>~ 15 minutes</td></tr></tbody></table>	Temperatures	Time	+10 °C	~ 50 minutes	+20 °C	~ 25 minutes	+30 °C	~ 15 minutes
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<b>Waiting Time / Overcoating</b>	Before applying Sikafloor®-263 SL on Sikafloor®-161 allow:
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Substrate temperature	Minimum	Maximum
+10 °C	24 hours	3 days
+20 °C	12 hours	2 days
+30 °C	8 hours	1 day

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 day

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 areas with limited exposure and normally absorbent concrete substrates priming with Sikafloor®-161 is not necessary for broadcast 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 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 CO<sub>2</sub> and H<sub>2</sub>O water vapour, which may adversely affect the finish. For heating use only electric powered warm air blower systems.

**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 / Maintenance****Methods**

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.

**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.

**Local Restrictions**

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

**Health and Safety Information**

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

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## 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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## CE Labelling

The harmonized European Standard EN 13 813 „Screed material and floor screeds - Screed materials - Properties and requirements“ specifies requirements for screed materials for use in floor construction internally.

Structural screeds or coatings, i.e. those that contribute to the load bearing capacity of the structure, are excluded from this standard.

Resin floor systems as well as cementitious screeds fall under this specification. They have to be CE-labelled as per Annex ZA. 3, Table ZA.1.5 and 3.3 and fulfil the requirements of the given mandate of the Construction Products Directive (89/106):

<b>CE</b>	
Sika Limited Watchmead Welwyn Garden City Herts. AL7 1BQ England	
07 <sup>1)</sup>	
EN 13813 SR-B1,5-AR1-IR 4	
Resin screed/coating for indoors in buildings (systems as per Product Data Sheet)	
Reaction to fire:	E <sub>fl</sub> <sup>2)</sup>
Release of corrosive substances ( <b>Synthetic Resin Screed</b> ):	SR
Water permeability:	NPD <sup>2)</sup>
<b>Abrasion Resistance:</b>	AR1 <sup>4)</sup>
<b>Bond strength:</b>	B 1,5
<b>Impact Resistance:</b>	IR 4
Sound insulation:	NPD
Sound absorption:	NPD
Thermal resistance:	NPD
Chemical resistance:	NPD

<sup>1)</sup> Last two digits of the year in which the marking was affixed.

<sup>2)</sup> Min. classification, please refer to the individual test certificate.

<sup>3)</sup> No performance determined.

<sup>4)</sup> Not broadcast with sand.

## EU Regulation 2004/42

### VOC - Decopaint Directive

According to the EU-Directive 2004/42, the maximum allowed content of VOC (Product category IIA / j type **sb**) is 550 / 500 g/l (Limits 2007 / 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.



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