

# PRODUCT DATA SHEET

## Sikafloor®-263 SL

SELF LEVELLING EPOXY FLOOR FOR SMOOTH AND BROADCAST FLOORING SYSTEMS.

### DESCRIPTION

Sikafloor®-263 SL is a multi-purpose Self levelling epoxy floor applied at 2-3mm as part of Sika Mutidur ES-23, ES-24 and EB-24 Systems

### USES

Sikafloor®-263 SL suitably experienced and trained specialist contractors.

Sikafloor®-263 SL is used as:

- Car Park deck and ramps
- Automotive workshops
- Educational trade facilities.
- Laboratories - Cleanrooms
- Printing other manufacturing facilities.
- Aircraft storage facilities.
- Stadiums
- Light to medium duty Food and Beverage facilities
- Plantrooms

### CHARACTERISTICS / ADVANTAGES

- Good chemical and mechanical resistance
- Easy application
- Variety of P Rated textured finishes
- Highly attractive appearance

### SUSTAINABILITY

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

### APPROVALS / CERTIFICATES

- Conforms to Australian Standards AS 4586-2013 for a variety of textures - (Refer Sika Technical Dept.).
- VOC- Australian Standards ASTM D3960 - Green Star Building Council - V2IEQ-13 V1IEQ-11
- 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, Declaration of Performance 02 08 01 02 05 00000002 1008, and provided with the CE marking.
- Coating for surface protection of concrete according to EN 1504-2:2004, Declaration of Performance 02 08 01 02 05 00000002 1008, certified by notified factory production control certification body 0921, certificate of conformity of the factory production control 2017, and provided with the CE marking.
- ISEGA Certificate of Conformity 41583 U16



## PRODUCT INFORMATION

<b>Composition</b>	Epoxy	
<b>Packaging</b>	Part A	13.09 kg containers
	Part B	4.0 kg containers
	Part C 12-15kg* + Pigment 1.15kg	30.24 to 33.25 kg Total kit
	*Note : Total litre volume of kit can vary from 17.2 to 18.3L depending on filler addition as stated above.	
	Part A	20kg drums
	Part B	20 kg drums
	Bulk	Available in bulk form to be measured for experienced contractors
<b>Appearance / Colour</b>	Resin - part A:	coloured, liquid
	Hardener - part B	transparent, liquid
RAL Light Grey 7035, Pebble Grey 7032, Koala Grey N45, Window Grey 7040, Dusty Grey 7037, Oxide Red 3009, Sky Blue 5015 Dahlia Yellow 1033 Other RAL and key industry colours available on request. (Refer to Sikafloor Epoxy colour chart) Under direct sunlight there may be some discoloration and colour variation; this has no influence on the function and performance of the coating.		
<b>Shelf life</b>	12 months from date of production	
<b>Storage conditions</b>	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5°C and +30°C.	
<b>Density</b>	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 ( 1:1)	~ 1,84 kg/l
All Density values at +23 °C.		
<b>Solid content by weight</b>	~100 %	
<b>Solid content by volume</b>	~100 %	

## TECHNICAL INFORMATION

<b>Shore D Hardness</b>	~76 (7 days / +23 °C)	(DIN 53 505)
<b>Abrasion Resistance</b>	~35 mg (CS 10/1000/1000) (7 days / +23 °C)	(DIN 53 109)
<b>Compressive Strength</b>	~50 N/mm <sup>2</sup> (Resin filled 1:0.9 with F34 / 28 days / +23 °C)	(EN196-1)
<b>Tensile Strength in Flexure</b>	~20 N/mm <sup>2</sup> (Resin filled 1:0.9 with F34 / 28 days / +23 °C)	(EN 196-1)
<b>Tensile Adhesion Strength</b>	>1,5 N/mm <sup>2</sup> (failure in concrete)	(ISO 4624)
<b>Chemical Resistance</b>	Resistant to many chemicals. Contact Sika technical service for specific information.	
<b>Temperature Resistance</b>	<b>Exposure*</b>	<b>Dry heat</b>
	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.		

## SYSTEMS

### Systems

Please refer to the system data sheet of :

Sikafloor® MultiDur ES-23 and 24	Smooth and fine textured unicolour epoxy floor covering
Sikafloor® MultiDur EB-24	Broadcast - textured unicolour epoxy floor covering

## APPLICATION INFORMATION

<b>Mixing Ratio</b>	Part A : part B = 79 : 21 (by weight)													
<b>Consumption</b>	~1.8 kg/m <sup>2</sup> /mm (1L/m <sup>2</sup> /mm) applied as a self-smoothing wearing course. These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level or wastage etc. For detailed info, please refer to the System data sheet Sikafloor® Multidur ES- 23 / 24 and Sikafloor® Multidur EB-24													
<b>Ambient Air Temperature</b>	+10 °C min. / +30 °C max.													
<b>Relative Air Humidity</b>	80 % r.h. max.													
<b>Dew Point</b>	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.													
<b>Substrate Temperature</b>	+10 °C min. / +30 °C max.													
<b>Substrate Moisture Content</b>	< 4 % pbw moisture content. Test method: Sika®-Tramex meter, CM-measurement or Oven-dry-method. No rising moisture according to ASTM (Polyethylene-sheet). Note: Use Sikafloor 161 Primer for substrates to 6 pbw. For substrates with moisture content above 6% pbw use Epocem 81													
<b>Pot Life</b>	<table><thead><tr><th>Temperature</th><th>Time</th></tr></thead><tbody><tr><td>+10 °C</td><td>~ 60 minutes</td></tr><tr><td>+20 °C</td><td>~ 30 minutes</td></tr><tr><td>+30 °C</td><td>~ 15 minutes</td></tr></tbody></table>	Temperature	Time	+10 °C	~ 60 minutes	+20 °C	~ 30 minutes	+30 °C	~ 15 minutes					
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<b>Curing Time</b>	Before overcoating Sikafloor®-263 SL allow: <table><thead><tr><th>Substrate temperature</th><th>Minimum</th><th>Maximum</th></tr></thead><tbody><tr><td>+10 °C</td><td>30 hours</td><td>3 days</td></tr><tr><td>+20 °C</td><td>24 hours</td><td>2 days</td></tr><tr><td>+30 °C</td><td>16 hours</td><td>1 days</td></tr></tbody></table> Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity. For accelerated curing times, Sikafloor Booster can be used. Refer to Sika Techncl Dept. for direction.		Substrate temperature	Minimum	Maximum	+10 °C	30 hours	3 days	+20 °C	24 hours	2 days	+30 °C	16 hours	1 days
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## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

- 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.
- Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface.

ured 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.

#### 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.

Care should be given to use a mixing head/ mixing vessel combination that has the mixing head submerged beneath the surface of the full mix.

Failure to do this may entrain excess air into the mix that can create difficulties in expelling all air from the applied floor with the spiked roller.

#### 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® 161 /-160 by roller then squeegee to overcome any possibility of entrapped air from the substrate creating pin/air holes in the finished product. Preferred application is by using a squeegee and then backrolling crosswise.

##### Levelling:

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

##### Wearing course smooth:

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

Roll immediately in two directions with a spiked roller to ensure even thickness and expell all latent, entrapped air from the mixing process.

##### 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.

When the floor has set hard (approx 10 hours @ 21 degrees C), remove all excess broadcast sand by sweeping and thorough vaccuming.

Note: Use Sikafloor Booster additive to accelerate this process; (refer to Sika Technical Dept for direction.) Apply finish coats of Sikafloor 264 high build flowable epoxy. Usually 2 coats required.

Coverage rates: 2-3m<sup>2</sup> per L first coat . 5-6 m<sup>2</sup> per L second coat ( rates will vary depending on the size of the broadcast aggregate selected.

#### 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

#### 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.
- Contaminants such as silicone residue present on the job site, either airbourne or from equipment, may cause defects in the surface of the finished product due to a change in surface tension. A test area may be required.
- 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 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

#### BASIS OF PRODUCT DATA

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 declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

## ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical product, users shall refer to the most recent Safety Data Sheet. (SDS) containing physical, toxicological and other safety related data.

## 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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Product Data Sheet

Sikafloor®-263 SL

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