

# PRODUCT DATA SHEET

## Sikafloor®-263 SL

### 2-PART EPOXY COVERING FOR SMOOTH AND BROADCASTED FLOORING SURFACES

#### PRODUCT DESCRIPTION

Sikafloor®-263 SL is a two part, multipurpose binder based on epoxy resin. "Total solid epoxy composition acc. to the test method Deutsche Bauchemie e.V. (German Association for construction chemicals)"

#### USES

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

- 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.

#### CHARACTERISTICS / ADVANTAGES

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

#### ENVIRONMENTAL INFORMATION

##### LEED Rating

Sikafloor®-263 SL conforms to the requirements of LEED EQ Credit 4.2: Low-Emitting Materials: Paints & Coatings

#### APPROVALS / STANDARDS

- 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 EN13813:2002,, 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.
- 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>Chemical Base</b>           | Epoxy  |   |
| <b>Packaging</b>               | Part A   | 15.8 kg containers  |
|                                | Part B   | 4.2 kg containers   |
|                                | Part A+B   | 20 kg ready to mix units                                  |
|                                | Part A   | 220 kg drums  |
|                                | Part B   | 177 kg drums  |
|                                | Part A+B   | 3 Drums Part A (220 kg) + 1 Drum Part B (177 kg) = 837 kg |
| <b>Appearance / Colour</b>     | Resin - Part A   | coloured, liquid  |
|                                | Hardener - Part B  | transparent, liquid                                       |
|                                | RAL 1001, 6021, 7030, 7032, 7035, 7037, 7038, 7040, 7042, 9002<br>Other colours on request.<br>Under direct sun light there may be some discolouration and colour variation; this has no influence on the function and performance of the coating. |   |
| <b>Shelf Life</b>              | 24 Months  |   |
| <b>Storage Conditions</b>      | Store properly 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/ (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>   | 41 mg (CS 10/1000/1000) (8 days / +23°C)   | DIN 53 505      |
| <b>Compressive Strength</b>  | ~ 50 N/mm <sup>2</sup> (Resin filled 1:0.9 with F34 / 28 days / +23°C)                         | (EN 196-1)      |
| <b>Flexural Strength</b>   | ~ 20 N/mm <sup>2</sup> (Resin filled 1:0.9 with F34 / 28 days / +23°C)                         | (EN 196-1))     |
| <b>Tensile Strength</b>  | > 1.5 N/mm <sup>2</sup> (failure in concrete)  | (ISO 4624)      |
| <b>Chemical Resistance</b>   | Resistant to many chemicals. Please ask for a detailed chemical resistance table.              |                 |
| <b>Thermal 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. |  |                 |

## SYSTEM INFORMATION

|                |  |  |
|----------------|--|--|
| <b>Systems</b> | 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

|                                   |   |                                      |
|-----------------------------------|---|--------------------------------------|
| <b>Mixing Ratio</b>               | Part A : Part B = 79 : 21 (by weight)   |                                      |
| <b>Consumption</b>                | ~0.3-0.5 kg/m <sup>2</sup> applied as a roller coating<br>~0.9-1.2 kg/m <sup>2</sup> /mm applied as a self-smoothing wearing course<br>These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level or wastage etc.<br>For detailed info, please refer to the System data sheet Sikafloor® Multidur ES-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!<br>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.<br>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.<br>Test method: Sika®-Tramex meter, CM - measurement or Oven-dry-method.<br>No rising moisture according to ASTM (Polyethylene-sheet).   |                                      |
| <b>Pot Life</b>                   | <b>Temperature</b>  | <b>Time</b>                          |
|                                   | +10 °C  | ~ 50 minutes                         |
|                                   | +20 °C  | ~ 25 minutes                         |
|                                   | +30 °C  | ~ 15 minutes                         |
| <b>Curing Time</b>                | Before overcoating Sikafloor®-263 SL allow:   |                                      |
|                                   | <b>Substrate temperature</b>  | <b>Minimum</b> <b>Maximum</b>        |
|                                   | +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.   |                                      |

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

- 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.
- 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 de-

fects 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.
- All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/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.

### 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 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 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.

### CLEANING OF TOOLS

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 DOCUMENTS

#### Substrate quality & Preparation

Please refer to Sika Information Manual: "EVALUATION AND PREPARATION OF SURFACES FOR FLOOR-

ING SYSTEMS".

#### Application instructions

Please refer to Sika Information Manual: "MIXING & APPLICATION OF FLOORING SYSTEMS".

#### Maintenance

Please refer to "Sikafloor®- CLEANING REGIME".

### LIMITATIONS

- 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 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.

### 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.

# ECOLOGY, HEALTH AND SAFETY

## DIRECTIVE 2004/42/CE - LIMITATION OF EMISSIONS OF VOC

According to the EU Directive 2004/42/CE, the maximum allowed content of VOC (product category IIA / j type sb) is 500 g/l (Limits 2010) for the ready to use product.

The maximum content of Sikafloor®-263 SL is  $\leq 500$  g/l VOC for the ready to use product.

## 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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