Sikafloor®-263 SL(IN)

4-part epoxy self-smoothing and broadcast system

**Product Description**
Sikafloor®-263 SL(IN) is a four part, economic, multipurpose binder based on epoxy resin.

**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.

**Characteristics / Advantages**
- Highly fillable
- Good chemical and mechanical resistance
- Easy application
- Economical
- Liquid proof
- Gloss finish
- Slip resistant surface possible

**Product Data**

**Form**

**Appearance / Colours**
- **Resin - part A:** Pale Brown, liquid
- **Colour paste - Part A1:** As per RAL shade
- **Hardener - part B:** Pale yellow, liquid
- **Filler – Component C:** Filler
- **Extended colour range:** RAL 7032, 7035, 7037, 7038, 7040, 7042, 9001
- 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.

**Packaging**
- **Part A:** 3.68 kg x 2 containers
- **Part A1:** 0.32 kg x 2 containers
- **Part B:** 1.063 kg x 2 containers
- **Part C:** 5.0 Kg x 2 HDPE Bags
- **Part A+A1+B+C:** 10.063x2
Storage

Storage Conditions / Shelf-Life
12 months from date of production if stored properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between + 15°C and +30°C.

Technical Data

Chemical Base
Epoxy

Density

<table>
<thead>
<tr>
<th>Part</th>
<th>Density</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part A</td>
<td>~ 1.58 kg/l</td>
</tr>
<tr>
<td>Part A1</td>
<td>~ 1.75 kg/l</td>
</tr>
<tr>
<td>Part B</td>
<td>~ 0.99 kg/l</td>
</tr>
<tr>
<td>Mixed</td>
<td>1.83 kg/l</td>
</tr>
</tbody>
</table>

(DIN EN ISO 2811-1)

All Density values at + 30°C.

Solid Content
~ 100% (by volume) / ~ 100% (by weight)

Mechanical / Physical Properties

Compressive Strength
~ 50 N/mm² (7 days / + 30°C) (ASTM C 579)

Flexural Strength
~ 20 N/mm² (7 days / + 30°C) (EN 196-1)

Bond Strength
> 1.5 N/mm² (failure in concrete) (ISO 4624)

Shore D Hardness
76 (7 days / + 30°C) (DIN 53 505)

Abrasion Resistance
0.17 mm (7 days / + 30°C)

IS 9162-1979 and IS 4631-1968, IS 1237-1980

Resistance

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

Thermal Resistance

<table>
<thead>
<tr>
<th>Exposure*</th>
<th>Dry heat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Permanent</td>
<td>+50°C</td>
</tr>
<tr>
<td>Short-term max. 7 d</td>
<td>+80°C</td>
</tr>
<tr>
<td>Short-term max. 12 h</td>
<td>+100°C</td>
</tr>
</tbody>
</table>

Short-term moist/wet heat* up to +80°C where exposure is only occasional (steam cleaning etc.)

*No simultaneous chemical and mechanical exposure.

USGBC

LEED Rating
EPA method 24 conducted by following ASTM D 2369 VOC content < 100gm/l

System Information

System Structure
Self-smoothing system 1.5 - 3.0 mm:
Primer: 1-2 x Sikafloor®-161 / Sikafloor 93 EC
Wearing course: 1 x Sikafloor®-263 SL (IN)

Broadcast system approx. 4 mm:
Primer*: 1-2 x Sikafloor®-161 / Seafloor 93 EC
Base coat: 1 x Sikafloor®-263 SL (IN)
Broadcasting: quartz sand (0.4 - 0.7 mm) broadcast to excess
Seal coat: 1 x Sikafloor®-264 (IN)

*Note: In cases of limited exposure and normal absorbent concrete substrates priming with Sikafloor®-161 is not necessary.
Application Details

Consumption / Dosage

<table>
<thead>
<tr>
<th>Coating System</th>
<th>Product</th>
<th>Consumption</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primer</td>
<td>Sikafloor®-161/ Sikafloor 93 EC</td>
<td>1-2 x 0.35 - 0.55 kg/m²</td>
</tr>
<tr>
<td>Levelling (optional)</td>
<td>Sikafloor®-161 levelling mortar</td>
<td>Refer to PDS of Sikafloor®-161</td>
</tr>
<tr>
<td>Self-smoothing wearing course</td>
<td>Sikafloor®-263 SL (IN)</td>
<td>1.8 kg/m² mixture per mm layer thickness</td>
</tr>
<tr>
<td>(Film thickness ~ 1.5 - 3.0 mm )</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Broadcast system</td>
<td>1 pbw Sikafloor®-263 SL (IN) + broadcasting quartz sand(Sikadur®-502) 0.4 - 0.7 mm + Seal coat Sikafloor®-264 (IN)</td>
<td>2.00 kg/m² ~ 6.0 kg/m² ~ 0.7 kg/m²</td>
</tr>
<tr>
<td>(Film thickness ~ 4.0 mm)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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/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.
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

<table>
<thead>
<tr>
<th>Substrate Temperature</th>
<th>+10 15°C min. / +30°C max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ambient Temperature</td>
<td>+ 15°C min. / +3 35°C max.</td>
</tr>
<tr>
<td>Substrate Moisture Content</td>
<td>≤ 4% pbw moisture content.</td>
</tr>
<tr>
<td>Test method: Sika®-Tramex meter, CM - measurement or Oven-dry-method.</td>
<td></td>
</tr>
<tr>
<td>No rising moisture according to ASTM (Polyethylene-sheet).</td>
<td></td>
</tr>
<tr>
<td>Relative Air Humidity</td>
<td>80% r.h. max.</td>
</tr>
<tr>
<td>Dew Point</td>
<td>Beware of condensation!</td>
</tr>
</tbody>
</table>
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.

Application Instructions

Mixing
Mixing Time
Prior to mixing, stir part A mechanically. Add part A1 into part A and mix till uniform
colour is achieved. Add part B to this mixed uniform coloured mixture (A+A1) and mix continuously for 2 minutes until a uniform mix has been achieved.
When above have been mixed, add part C and mix for a further 3 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 (IN) must be thoroughly mixed using a low speed electric stirrer (300 - 400 rpm) or other suitable equipment.

Application Method / Tools
Prior to application, confirm substrate moisture content, r.h. 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®-161 levelling mortar (see PDS).

Wearing course smooth:
Sikafloor®-263 SL(IN) 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.

Potlife

<table>
<thead>
<tr>
<th>Temperatures</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>+30°C</td>
<td>~ 35 minutes</td>
</tr>
</tbody>
</table>

Waiting Time / Overcoating
Before applying Sikafloor®-263 SL (IN) on Sikafloor®-156/-161 allow:

<table>
<thead>
<tr>
<th>Substrate temperature</th>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>+30°C</td>
<td>8 hours</td>
<td>1 day</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Substrate temperature</th>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>+30°C</td>
<td>16 hours</td>
<td>1 day</td>
</tr>
</tbody>
</table>

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.
For areas with limited exposure and normally absorbent concrete substrates priming with Sikafloor®-156/-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.

Tools
Recommended Supplier of Tools:
Serrated trowel for smooth wearing layer:
e.g. Large-Surface Scrapper No. 565, Toothed blades No. 25
Serrated trowel for textured wearing layer:
e.g. Trowel No. 999 or Adhesive Spreader No.777, Toothed blades No. 23

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 CO2 and H2O 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

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Foot traffic</th>
<th>Light traffic</th>
<th>Full cure</th>
</tr>
</thead>
<tbody>
<tr>
<td>+10°C</td>
<td>~ 72 hours</td>
<td>~ 6 days</td>
<td>~ 10 days</td>
</tr>
<tr>
<td>+20°C</td>
<td>~ 24 hours</td>
<td>~ 4 days</td>
<td>~ 7 days</td>
</tr>
<tr>
<td>+30°C</td>
<td>~ 18 hours</td>
<td>~ 2 days</td>
<td>~ 5 days</td>
</tr>
</tbody>
</table>

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.

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.

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.