BUILDING TRUST

PRODUCT DATA SHEET

Sikafloor®-263 SL ZA

2-part epoxy covering for smooth and broadcasted flooring surfaces

DESCRIPTION

Sikafloor®-263 SL ZA is a two part, multi purpose 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 ZA 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

APPROVALS / STANDARDS

Particle emission certificate Sikafloor-263 SL CSM Statement of Qualification – ISO 14644-1, class 5– Report No. SI 0904-480 and 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.
• 2-part epoxy self-smoothing and broadcast system according to EN 1504-2: 2004 and EN 13813:2002, DoP 02 08 01 02 013 0 000006 2017, certified by Factory Production Control Body No. 0921, certificate 2017, and provided with the CE-mark
• ISEGA Certificate of Conformity 37447 U14

PRODUCT INFORMATION

Chemical Base

Epoxy

Packaging

Part A	10.0 Ltr (15.8kg) containers
Part B	4.2 Ltr (4.2kg) containers
Part A+B	14.2 Ltr (20kg)ready to mix units
Part A+B+C	
1:1 (resin:filler SS2 (0.1 - 0.3mm))	21.28ltr or 40kg (20kg Part C)
1:1.04 (resin:filler SS1 (0.1 - 0.3mm))	16.67ltr or 28kg (8kg Part C)

Bulk packaging

Part A	220 kg drums
Part B	177 kg, 59 kg drums
Part A+B	1 Drum Part A (220 kg) + 1 drum Part B (59 kg) = 279 kg 3 Drums Part A (220kg) + 1 drum Part B (59 kg) =837 kg

Shelf Life

24 months from date of production

Storage Conditions

The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5°C and +30°C.

Appearance / Colour

Resin - part A:	coloured, liquid
Hardener - part B	transparent, liquid

RAL 1002, 7032, 7035, 7037, 7038, 7042,
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.

Density

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)	~ 1.44 kg/l	

All Density values at +23°C.

TECHNICAL INFORMATION

Abrasion Resistance

41 mg (CS 10/1000/1000) (8 days / +23°C) (DIN 53 505)

Compressive Strength

Resin (filled 1:0,9 with SS2): ~ 50 N/mm² (28 days / +23°C) (EN196-1)

Tensile Strength in Flexure

Resin (filled 1:0,9 with SS2): ~ 20 N/mm² (28 days / +23°C) (EN 196-1)

Tensile Adhesion Strength

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

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 and only in combination with Sikafloor® systems as a broadcast system with approx. 3 - 4 mm thickness.

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

SYSTEM INFORMATION

APPLICATION INFORMATION

Mixing Ratio	Part A : part B = 79 : 21 (by weight)
Consumption	~ 0,21-0,35 ltr/m² applied as a roller coating ~ 0,62-0,83 ltr/m² 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-24 and Sikafloor® Multidur EB-24
Ambient Air Temperature	+10°C min. / +30°C max.
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. Note: Low temperatures and high humidity conditions increase the probability of blooming.
Substrate 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).

Pot Life

Temperature	Time
+10°C	~ 60 minutes
+20°C	~ 30 minutes
+30°C	~ 15 minutes

Curing Time

Before overcoating Sikafloor®-263SL ZA 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.

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.

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.

FURTHER DOCUMENTS

- **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”.

LIMITATIONS

- Do not apply Sikafloor®-263 SL ZA on substrates with rising moisture.
- Do not blind the primer
- Freshly applied Sikafloor®-263 SL ZA should be protected from damp, condensation and water for at least 24 hours.
- 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 ZA 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_2 and H_2O water vapour, which may adversely affect the finish. For heating use only electric powered warm air blower systems

ECOLOGY HEALTH AND SAFETY

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

- 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 can be damp but must be free of standing water and free of all contaminants such as oil, grease, coatings and surface treatments etc. If in doubt, apply a test area first.
- 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 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 ZA 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, 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®-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 ZA 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 ZA 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 ZA 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

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.

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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