BUILDING TRUST

PRODUCT DATA SHEET

Sikafloor®-263 SL

2-part epoxy covering for smooth and broadcasted flooring surfaces

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.

Sikafloor®-263 SL is used as:
- 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

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

Chemical Base	Epoxy	
Packaging	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 59 kg 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
Appearance / Colour	Resin - part A:	coloured, liquid
	Hardener - part B	transparent, liquid
	RAL 1001, 6021, 7030, 7032, 7035, 7037, 7038, 7040, 7042, 9002 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.	
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.	
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)	~ 1,84 kg/l
	All Density values at +23 °C.	
Solid content by weight	~100 %	
Solid content by volume	~100 %	

TECHNICAL INFORMATION

Shore D Hardness	~76 (7 days / +23 °C)	(DIN 53 505)
Abrasion Resistance	~35 mg (CS 10/1000/1000) (7 days / +23 °C)	(DIN 53 109)
Compressive Strength	~50 N/mm² (Resin filled 1:0.9 with F34 / 28 days / +23 °C)	(EN196-1)
Tensile Strength in Flexure	~20 N/mm² (Resin filled 1:0.9 with F34 / 28 days / +23 °C)	(EN 196-1)
Tensile Adhesion Strength	> 1,5 N/mm² (failure in concrete)	(ISO 4624)
Chemical Resistance	Resistant to many chemicals. Contact Sika technical service for specific information.	
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.	

APPLICATION INFORMATION

Mixing Ratio	Part A : part B = 79 : 21 (by weight)
Consumption	~0,3–0,5 kg/m² applied as a roller coating ~0,9–1,2 kg/m²/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-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®-263 SL 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.

SYSTEM INFORMATION

Systems

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

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 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/-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_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

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

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

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

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

- 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.
- 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 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 /-160 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/-160 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

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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