BUILDING TRUST

PRODUCT DATA SHEET

Sikafloor®-263 SL HC

2-PART EPOXY SELF-SMOOTHING AND BROADCAST SYSTEM

DESCRIPTION

Sikafloor®-263 SL HC is a two part, economic, multi purpose binder based on epoxy.

USES

Sikafloor®-263 SL HC 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 wet process areas, e.g. in beverage industry, food industry, maintenance hangars etc.

CHARACTERISTICS / ADVANTAGES

- Highly fillable
- Good chemical and mechanical resistance
- Easy application
- Economical
- Liquid proof
- Solvent-free
- Gloss finish, dust-proof sealer
- Slip resistant surface possible

PRODUCT INFORMATION

Chemical base	Epoxy	
Packaging	Part A	7.9 kg can
	Part B	2.1 kg can
	Part A+B	**10 kg set**
	Part A	15.8 kg can
	Part B	4.2 kg can
	Part A+B	**20 kg set**
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 +18 °C and +30 °C.	
Appearance / Colour	Resin - part A:	Liquid / Coloured
	Hardener - part B:	Liquid / Transparent
	Standard colour shades: RAL 6010, RAL 6011, RAL 6032, RAL 1013, RAL 1014, RAL 7032, RAL 7035, RAL 7038, RAL 9003, RAL 9016, RAL 9010, RAL 5015. Customer colours subject to minimum orders. Under direct sun light there may be some discolouration and colour vari-	

ations; 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	~1.43 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	~74 (7 days/+23 °C)	(ASTM D2240)
Abrasion Resistance	62 mg (CS 10/1000/1000) (8 days / +23°C)	(ASTM D4060)
Compressive Strength	~70.0 N/mm²	(ASTM D 695)
Tensile Strength in Flexure	~20.0 N/mm²	(ASTM D790)
Tensile Adhesion Strength	>1.5 N/mm² (failure in concrete)	(ISO 4624)

Thermal Resistance

Exposure*	**Dry heat**
Permanent	+50 °C
Short-term max. 7 days	+80 °C
Short-term max. 12 hours	+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.

CHEMICAL RESISTANCE

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

SYSTEM INFORMATION

Systems

Self Smoothing system 1.0 mm:

Primer:	1 x Sikafloor®-161 HC
Wearing course:	1 x Sikafloor®-263 SL HC + Silicaflour

Self-smoothing system 1.5 - 3.0 mm:

Primer:	1 x Sikafloor®-161 HC
Wearing course:	1 x Sikafloor®-263 SL HC + Quartz sand (0.1 - 0.3 mm)

Broadcast system approx 4 mm:

Primer*:	1 x Sikafloor®-161 HC
Base coat:	1 x Sikafloor®-263 SL HC + Quartz sand (0.1 - 0.3 mm)
Broadcasting:	Sikafloor Filler-2 broadcast to excess
Seal coat:	1 x Sikafloor®-264 HC

APPLICATION INFORMATION

Mixing ratio

Part A : part B = 79 : 21 (by weight)

Consumption

Coating System	Product	Consumption
Priming	Sikafloor®-161 HC	0.35-0.55 kg/m²
Levelling (optional) Self-smoothing wearing course: 1 mm	Sikafloor®-161 HC levelling mortar 1 pbw Sikafloor®-263 SL HC + 1 pbw Silicaflour	Refer to PDS of Sikafloor®-161 HC 1.2 kg /m²/mm binder + 0.25 kg/m²/mm silicaflour
Self-smoothing wearing course (Film thickness ~1. 5 - 3.0 mm)	Sikafloor®-263 SL HC + Quartz sand (0.1–0.3 mm)	1.9 kg/m² mixture (0.95 kg/m² binder + 0.95 kg/m² Quartz sand) per mm layer thickness
Broadcast system (Film thickness ~4.0 mm)	1 pbw Sikafloor®-263 SL HC +	2.00 kg/m²
	1 pbw Quartz sand (0.1–0.3 mm)	2.00 kg/m²
	Broadcasting Sikafloor Filler-2	~6.0 kg/m²
	Seal coat Sikafloor®-264 HC	~0.7 kg/m²

These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level and wastage etc.

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.

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	~50 min
+20 °C	~25 min
+30 °C	~15 min

Curing time

Waiting time / Overcoating

Before applying Sikafloor®-263 SL HC on Sikafloor®-161 HC allow:

Substrate temperature	Minimum	Maximum
+10 °C	24 hours	3 days
+20 °C	12 hours	2 days
+30 °C	8 hours	1 days

Before applying Sikafloor®-263 SL HC on Sikafloor®-263 SL HC 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 h	~6 d	~10 d
+20 °C	~24 h	~4 d	~7 d
+30 °C	~18 h	~2 d	~5 d

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.

IMPORTANT CONSIDERATION

- Do not apply Sikafloor®-263 SL HC on substrates with rising moisture.
- Do not blind the primer
- Freshly applied Sikafloor®-263 SL HC should be protected from damp, condensation and water for at least 24 hours.
- Avoid puddles on the surface with the primer.
- For areas with limited exposure and normally absorbent concrete substrates priming with Sikafloor®-161 HC is not necessary for roller or textured coating systems.

Tools

Recommended Supplier of Tools:
PPW-Polyplan-Werkzeuge GmbH, Phone: +49 40/5597260, www.polyplan.com. 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®-264 HC 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.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

- Concrete substrate must be sound and 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.
- 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 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 HC must be thoroughly mixed using a low speed stirrer (300 – 400 rpm) or other suitable equipment.

APPLICATION

Prior to application, confirm substrate moisture content, relative air humidity and dew point. If > 4% pbw moisture content, Sikagard®-75 EpoCem® and/or Sikafloor®-81 EpoCem® may be applied as a T.M.B. (temporary moisture barrier) system.

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

Wearing course smooth:
Sikafloor®-263 SL HC 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 HC 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 Sikafloor Filler-2, 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

CLEANING

To maintain the appearance of the floor after application, Sikafloor®-263 SL HC 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 declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product 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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