

PRODUCT DATA SHEET

Sikafloor®-263 SL CN

2-part epoxy self smoothing screed and broadcast system

DESCRIPTION

Sikafloor®-263 SL CN is a two part multi purpose binder based on epoxy resin for highly filled self-smoothing screeds.

USES

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

- For self smoothing layers on concrete and cement screeds with normal up to medium heavy wear e.g. storage and assembly halls, maintenance workshops, garages and loading ramps etc.
- The broadcast system is recommended for wet process area, e.g. in beverage industry, food processing, maintenance hangars etc.

CHARACTERISTICS / ADVANTAGES

- Good chemical and mechanical resistance
- Easy application
- Economical
- Solvent-free
- Slip resistant surface possible

APPROVALS / CERTIFICATES

Meet the requirements of GB/T 22374-2018

PRODUCT INFORMATION

Composition	Epoxy		
Packaging	Part A	20.8 kg/pail	
	Part B	5.2 kg/pail	
Shelf life	24 months		
Storage conditions	Stored properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5°C and +30°C.		
Appearance and colour	Part A	Coloured liquid	
	Part B	Yellowish transparent liquid	
Density	Part A	~1.6 kg/l	GB 6750
	Part B	~1.0 kg/l	
	Mixed resin	~1.4 kg/l	
All Density values at +23°C.			
Solid content by mass	~100%		
Solid content by volume	~100%		

TECHNICAL INFORMATION

Shore D Hardness	~76	GB/T 22374-2018
Abrasion resistance	~20 mg	GB/T 22374-2018
Compressive strength	~60 N/mm ²	GB/T 22374-2018
Tensile adhesion strength	~4.5 N/mm ²	GB/T 22374-2018
Temperature 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.	
Chemical resistance	Resistant to many chemicals. Please ask for a detailed chemical resistance table.	

SYSTEM INFORMATION

Systems	Self-smoothing system 1.5 - 3.0 mm:	
	Primer:	1 x Sikafloor®-161 L
	Wearing course:	1 x Sikafloor®-263 SL CN + quartz sand (Sikadur®-505 Q)
	Broadcast system approx. 4 mm:	
	Primer*:	1 x Sikafloor®-161 L
	Base coat:	Sikafloor®-263 SL CN + quartz sand (Sikadur®-505 Q)
	Broadcasting:	quartz sand (Sikadur®-505 Q) broadcast to excess
	Seal coat:	Sikafloor®-263 SL CN
	*Note: In cases of limited exposure and normal absorbent concrete substrates priming with Sikafloor®-161 L is not necessary	

APPLICATION INFORMATION

Mixing ratio	Part A : Part B = 4 : 1 (by weight)		
Consumption	System	Product	Consumption
	Primer	Sikafloor®-161 L	0.35 - 0.55 kg/m ²
	Levelling (optional)	Sikafloor®-161 L leveling mortar	Refer to PDS of Sikafloor®-161 L
	Self-smoothing wearing course (Film thickness ~ 1.5 - 3.0 mm)	1 pbw Sikafloor®-263 SL CN 0.7 pbw quartz sand (Sikadur® 505 Q)	1.75 kg/m ² mixture /mm thickness Filler quantity depended on temperature and filler type
	Broadcast system (Film thickness ~ 4.0 mm)	1 pbw Sikafloor®-263 SL CN 1 pbw quartz sand (Sikadur® 505 Q) + broadcasting quartz sand 0.4 -0.7 mm + Seal coat Sikafloor®-263 SL CN	2.00 kg/m ² 2.00 kg/m ² ~ 4.0 kg/m ² ~ 0.7 kg/m ²

These figures are theoretical and do not allow for any additional material

due to surface porosity, surface profile, variations in level and wastage etc. The quantity of quartz sand in self-leveling system based on the temperature of ambient and substrate approx. 23^o and 2mm thickness. The actual addition of quartz sand should be depending on temperature and thickness on site, higher temperature and thickness, more quantity of quartz sand can be added in to resin mixture.

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 or CM - measurement. No rising moisture according to ASTM (Polyethylene-sheet).			
Pot Life	<u>Temperatures</u>	<u>Time</u>		
	+10°C	~ 50 minutes		
	+20°C	~ 25 minutes		
	+30°C	~ 15 minutes		
Waiting time to overcoating	* Before applying Sikafloor [®] -263 SL CN on Sikafloor [®] -161 L allow:			
	<u>Substrate temperature</u>	<u>Minimum</u>	<u>Maximum</u>	
	+10°C	24 hours	3 days	
	+20°C	12 hours	2 days	
	+30°C	8 hours	1 day	
Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.				
Applied product ready for use	<u>Temperature</u>	<u>Foot traffic</u>	<u>Light traffic</u>	<u>Full cure</u>
	+10°C	~ 30 hours	~ 6 days	~ 10 days
	+20°C	~ 24 hours	~ 3 days	~ 7 days
	+30°C	~ 16 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 Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

IMPORTANT CONSIDERATIONS

Do not apply Sikafloor[®]-263 SL CN on substrates in which significant vapour pressure may occur.
Do not blind the primer.
Freshly applied Sikafloor[®]-263 SL CN must 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 L 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.
The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.
For exact color matching, ensure the Sikafloor[®]-263 SL CN in each area is applied from the same control batch numbers.

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

EQUIPMENT

Sikafloor®-263 SL CN must be mechanically mixed using an electric power stirrer (300 - 400 rpm) or other suitable equipment.

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 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.

Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve a profiled open textured surface.

Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed.

Repairs to 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 up 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.

MIXING

Prior to mixing stir part A mechanically. When all of part B has been added to part A, continuously mix for 2 minutes until a uniform mix has been achieved.

When parts A and B have been mixed, the quartz sand 0.1 - 0.3 mm and/or Extender T must be mixed with part A and B 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 minimize air entrainment.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with Thinner C immediately after use. Hardened / cured material can only be mechanically removed.

MAINTENANCE

CLEANING

To maintain the appearance of the floor after application, Sikafloor®-263 SL CN 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.



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LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

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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