

PRODUCT DATA SHEET

Sikafloor®-263 SL N

Epoxy self-smoothing resin floor coating



DESCRIPTION

Sikafloor®-263 SL N is a 2-part epoxy coloured self-smoothing coating that can provide a hard wearing, seamless, low maintenance, smooth gloss finish or slip resistant finish when broadcast with different aggregate grades.

USES

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

The Product is used as a:

- Self smoothing wearing coating and slip resistant coating on concrete and cementitious screed substrates

Please note:

- The Product may only be used by experienced professionals.
- The Product may only be used for interior applications.

FEATURES

- Good mechanical resistance
- Good impact resistance
- Low maintenance
- Optional surface profiles slip resistant or smooth
- Seamless and hygienic

SUSTAINABILITY

- Conforms with LEED v4 EQ credit: Low-emitting materials
- Conforms with LEED v4 MR credit: Building product disclosure and optimization — Environmental Product Declarations (option 1)
- Conforms with LEED v4 MR credit: Building product disclosure and optimization — Material ingredients (option 2)
- Environmental Product Declaration (EPD) in accordance with EN 15804. EPD independently verified by Institut für Bauen und Umwelt e.V. (IBU)

CERTIFICATES AND TEST REPORTS

- Particle emission ISO 14644-1, CSM Statement of Qualification, Sikafloor®-263 SL
- CE marking and declaration of performance based on EN 1504-2:2004 Products and systems for the protection and repair of concrete structures — Surface protection systems for concrete — Coating
- CE marking and declaration of performance based on EN 13813:2002 Screed material and floor screeds — Screed material — Properties and requirements — Synthetic resin screed material

PRODUCT INFORMATION

Composition	Solvent free epoxy	
Packaging	Container Part A	15.8 kg
	Container Part B	4.2 kg
	Container Part A + Part B	20 kg ready to mix units
	Drum Part A	220 kg drums
	Drum Part B	177 kg, 59 kg drums
	Packaging Drum Part A + Part B	1 Drum Part A (220 kg) + 1 drum Part B (59 kg) = 279 kg 3 Drums Part A (220kg) + 1 drum Part B (177 kg) = 837 kg
	Refer to the current price list for available packaging variations.	
Shelf life	24 months from date of production	
Storage conditions	<p>The Product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +30 °C. Always refer to packaging.</p> <p>Refer to the current Safety Data Sheet for information on safe handling and storage.</p>	
Appearance and colour	Part A	coloured, liquid
	Part B	transparent, liquid
	Cured appearance	gloss finish
	<p>Almost unlimited choice of colours. Note: Colour deviations may occur due to filling with quartz sand or carbon fibre filaments. Exposure to direct sunlight Note: When the product is exposed to direct sunlight, there may be some discolouration and colour variation. This has no influence on the function and performance of the coating.</p>	
Density	Part A	~1.50 kg/l
	Part B	~1.00 kg/l
	Mixed Product	~1.44 kg/l
Solid content by mass	~100 %	
Solid content by volume	~100 %	

TECHNICAL INFORMATION

Shore D Hardness	Cured 7 days at +23 °C	~76	(EN ISO 868)
Abrasion resistance	Cured 7 days at +23 °C	~35 mg (CS 10/1000/1000)	(EN ISO 5470-1)
Compressive strength	Cured 28 days at +23 °C	~50 N/mm ² (Resin filled 1:0,9 with quartz sand 0,1-0,3 mm) (28 days / +23 °C)	(EN 13892-2)
Flexural-strength	Cured 28 days at +23 °C	~22 N/mm ² (Resin filled 1:0,9 with quartz sand 0,1-0,3 mm)	(EN 13892-2)
Tensile adhesion strength	> 1.5 N/mm ² (failure in concrete)		(EN 1542)

Temperature resistance

IMPORTANT

Simultaneous mechanical and chemical strain

While the Product is exposed to temperatures up to +60 °C, simultaneous mechanical or chemical strain may cause damage to the Product.

1. Do not expose the Product to chemical or mechanical strain at elevated temperatures

APPLICATION INFORMATION

Mixing ratio	Part A : Part B (by weight)	79 : 21 (by weight)		
Consumption	Filled	~1.6–1.9 kg/m ² per mm thickness		
Material temperature	Minimum	+10 °C		
	Maximum	+30 °C		
Ambient air temperature	Minimum	+10 °C		
	Maximum	+30 °C		
Relative air humidity	Maximum	80 %		
Dew point	Beware of condensation. The substrate and uncured applied product must be at least +3 °C above dew point to reduce the risk of condensation or blooming on the surface of the applied product. Low temperatures and high humidity conditions increase the probability of blooming.			
Substrate temperature	Minimum	+10 °C		
	Maximum	+30 °C		
Substrate moisture content	Please refer to the product datasheet of the individual epoxy primer.			
Pot Life	+10 °C	~60 minutes		
	+20 °C	~30 minutes		
	+30 °C	~15 minutes		
Note: Times are approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity.				
Waiting time to overcoating	Before applying non-solvented products on Sikafloor®-263 SL N allow:			
	Temperature	Minimum	Maximum	
	+10 °C	~30 hours	~3 days	
	+20 °C	~24 hours	~48 hours	
+30 °C	~16 hours	~24 hours		
Note: 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	~30 hours	~6 days	~10 days
	+20 °C	~24 hours	~4 days	~7 days
	+30 °C	~16 hours	~2 days	~5 days
Note: Times apply when the last layer of the system has been applied. Times are affected by changing ambient conditions, particularly temperature and relative humidity.				

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 INFORMATION

- Sika® Method Statement: Evaluation and preparation of surfaces for flooring systems
- Sika® Method Statement: Mixing and application of flooring 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.

APPLICATION INSTRUCTIONS

EQUIPMENT

MIXING EQUIPMENT

- Electric double paddle mixer (> 700 W, 300 to 400 rpm)

APPLICATION EQUIPMENT

- Trowels, including serrated

SUBSTRATE QUALITY

IMPORTANT

Incorrect treatment of cracks

The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.

TREATMENT OF JOINTS AND CRACKS

Construction joints and existing static surface cracks in substrate require pre-treating before full layer application. Use Sikadur® or Sikafloor® resins.

SUBSTRATE CONDITION

Cementitious substrates (concrete / screed) must be structurally sound and of sufficient compressive strength (minimum 25 N/mm²) with a minimum tensile strength of 1.5 N/mm².

Substrates must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings, laitance, surface treatments and loose friable material.

SUBSTRATE PREPARATION

MECHANICAL SUBSTRATE PREPARATION

IMPORTANT

Exposing blow holes and voids

When mechanically preparing the surface, make sure to fully expose blow holes and voids.

1. Remove weak cementitious substrates.
2. Prepare cementitious substrates mechanically using abrasive blast cleaning or planing / scarifying equipment to remove cement laitance.
3. Before applying thin layer resins, remove high spots by grinding.
4. Use industrial vacuuming equipment to remove all dust, loose and friable material from the application surface before applying the Product.
5. Use products from the Sikafloor®, Sikadur® and Sikagard® range of materials to level the surface or fill cracks, blow holes and voids.

Contact Sika® Technical Services for additional information on products for levelling and repairing defects.

SUBSTRATE PREPARATION OF NON-CEMENTITIOUS SUBSTRATES

For information on substrate preparation of non-cementitious substrates, contact Sika Technical services.

MIXING

SELF-SMOOTHING WEARING LAYER MIXING PROCEDURE

1. Mix Part A (resin) until the coloured pigment is dispersed and a uniform colour is achieved.
2. Add Part B (hardener) to Part A.
3. While mixing Parts A + B, gradually add the required filler or aggregates.
4. **IMPORTANT** Over mixing must be avoided to minimise air entrainment. Mix for a further 2 minutes until a uniform mix is achieved.
5. To ensure thorough mixing, pour materials into another container and mix again to achieve a smooth and uniform mix.
6. During the final mixing stage, scrape down the sides and bottom of the mixing container with a flat or straight edge trowel at least once to ensure complete mixing.

APPLICATION

IMPORTANT

Protect from moisture

After application, protect the Product from damp, condensation and direct water contact for at least 24 hours.

IMPORTANT

Seal coat adhesion

Sikafloor®-304 W, Sikafloor®-305 W, Sikafloor®-316 or Sikafloor®-2540 W will not gain sufficient adhesion to the Product without proper preparation

1. Abrade the surface with a red or black Scotch Brite pad or sand paper No 120
2. Clean the prepared surface by industrial vacuum prior to applying the seal coat

IMPORTANT

Temporary moisture barrier

If the substrate moisture content measured with the CM-method is > 4% by weight, apply a temporary moisture barrier consisting of Sikafloor® EpoCem®.

1. Contact Sika technical services for more information.

IMPORTANT

No application on rising moisture

Do not apply on substrates with rising moisture.

IMPORTANT

Blinding the primer

Rising vapour from within the substrate can cause blisters and other surface defects in the Product.

1. Do not blind the primer with aggregate to form a mechanical key

IMPORTANT

Ensuring consistent colour matching

For consistent colour matching, make sure the Product in each area is applied from the same control batch numbers.

IMPORTANT

Temporary heating

If temporary heating is required, do not use gas, oil, paraffin or other fossil fuel heaters. These produce large quantities of both carbon dioxide and water vapour, which may adversely affect the finish.

1. For heating, use only electric powered warm air blower systems.

SELF-SMOOTHING WEARING LAYER APPLICATION

1. Pour the mixed Product onto the substrate.
Note: The consumption is specified in Application Information.
2. Apply the Product evenly over the surface with a serrated trowel.
3. Back roll the surface in two directions at right angles with a spike roller.
Note: Maintain a "wet edge" during application to achieve a seamless finish.

SLIP-RESISTANT BROADCAST LAYER

1. Pour the mixed Product onto the prepared substrate.
2. Apply the Product evenly over the surface with a trowel.
3. Back roll the surface in two directions at right angles with a spike roller.
4. Allow the product to cure for 15 minutes.
Note: Times are temperature dependant. Times given are for +20 °C.
5. Broadcast the surface with quartz sand or silicon carbide, lightly at first, then to excess.
Note: The aggregate is dependant on the system build-up. Refer to the relevant System Data Sheet.
6. Allow the surface to become tack free.
7. Remove all loose sand with industrial vacuuming equipment.

CLEANING OF EQUIPMENT

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

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.

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