

PRODUCT DATA SHEET

Sikafloor®-264

Epoxy self-smoothing flooring and coating resin

DESCRIPTION

Sikafloor®-264 is a 2-part, epoxy coloured, self-smoothing flooring and coating resin

USES

Sikafloor®-264 may only be used by experienced professionals.

Industrial self-smoothing flooring and coating resin on cementitious substrates for:

- Normal up to medium heavy wear
- Assembly halls
- Dry production areas
- Warehouses
- Workshops
- Garages
- Loading ramps
- Interior use only

Industrial resin flooring seal coat on Sika broadcast systems for:

- Multi-storey and underground car park decks
- Wet and dry production areas
- Aircraft hangars
- Food & beverage process areas
- Interior use only

CHARACTERISTICS / ADVANTAGES

- Seamless and hygienic
- Good chemical and mechanical resistance
- Easy application
- Waterproof
- Gloss finish
- Slip-resistant broadcast surface to suit clients requirements
- Can be filled with sand to produce a self-smoothing resin
- Low maintenance

SUSTAINABILITY

- Conformity with LEED v4 MRc 2 (Option 1): Building Product Disclosure and Optimization – Environmental Product Declarations
- Conformity with LEED v4 MRc 4 (Option 2): Building Product Disclosure and Optimization - Material Ingredients

APPROVALS / CERTIFICATES

- Cleanroom Suitability Sikafloor®, Fraunhofer IPA, Report No. SI 1008-533
- Fire Classification EN 13501-1, Sikafloor®-264, MPA Dresden Germany, Test report No. 2013-B-2119/01



PRODUCT INFORMATION

Composition	Epoxy		
Packaging	Part A	23,7 kg containers	
	Part B	6,3 kg containers	
	Part A+B	30 kg ready to mix units	
	Part A	220 kg drums	
	Part B	59 kg drums	
	Part A+B	177 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 and colour	Resin - part A	coloured, liquid	
	Hardener - part B	transparent, liquid	
	Extended colour range		
		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	~ 1,64 kg/l	(DIN EN ISO 2811-1)
	Part B	~ 1,00 kg/l	
	Mixed resin	~ 1,40 kg/l	
		All Density values at +23 °C.	
Solid content by mass	~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 53109)
Compressive strength	~53 N/mm ² (Resin filled 1:0.9 with F34) (28 days / +23 °C)	(EN196-1)
Tensile strength in flexure	~20 N/mm ² (Resin filled 1:0.9 with F34) (28 days / +23 °C)	(EN 196-1)
Tensile adhesion strength	> 1,5 N/mm ² (failure in concrete)	(ISO 4624)
Chemical resistance	Resistant to many chemicals. Contact Sika technical service for specific information.	
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 and only in combination with Sikafloor® systems as a broadcast system with approx. 3–4 mm thickness.

SYSTEM INFORMATION

Systems

Refer to the following System Data Sheets:

- Sikafloor® MultiDur ES-14
- Sikafloor® MultiDur EB-24
- Sikafloor® MultiDur ES-26
- Sikafloor® MultiDur EB-14
- Sikafloor® MultiDur EB-14 ECC

APPLICATION INFORMATION

Mixing ratio

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

Consumption

Coating / Seal coat: ~0,25–0,3 kg/m² (unfilled)
Self-smoothing layer: ~0,9–1,2 kg/m²/mm (filled)
Slip-resistance broadcast wearing layer: ~0,9–1,2 kg/m²/mm (filled)
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 information, refer to the System Data Sheets.

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

Curing time

Before applying Sikafloor®-264 on Sikafloor®-264 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 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 & Application of Flooring Systems
- Sika Method Statement: Sikafloor®-Cleaning Regime
- System Data Sheet: Sikafloor® MultiDur ES-14
- System Data Sheet: Sikafloor® MultiDur EB-24
- System Data Sheet: Sikafloor® MultiDur ES-26
- System Data Sheet: Sikafloor® MultiDur EB-14
- System Data Sheet: Sikafloor® MultiDur EB-14 ECC

IMPORTANT CONSIDERATIONS

- Do not apply Sikafloor®-264 on substrates with rising moisture.
- Do not blind the primer.
- Freshly applied Sikafloor®-264 must 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/-160/-161 is not necessary for roller or textured coating systems.
- For roller / textured coatings: Uneven substrates as well as inclusions of dirt cannot and must 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 consistent colour matching, ensure the Sikafloor®-264 in each area is applied from the same control batch numbers.
- Under certain conditions, underfloor heating combined with high point loading, may lead to indentations 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.
- Seal / Top coat consumption will vary depending on sand granulometry.

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.

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®-264 is < 500 g/l VOC for the ready to use product.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

The concrete substrate must be 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.

Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface gripping surface profile suitable for the product thickness.

High spots can be removed by grinding.

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 extraction equipment.

MIXING

Coatings

Prior to mixing all parts, mix separately Part A (resin) using an electric single paddle mixer (300 - 400 rpm) or other similar equipment. Mix liquid and all the coloured pigment until a uniform colour / mix has been achieved. Add Part B (hardener) to Part A and mix Part A + B continuously for 3,0 minutes until a uniformly coloured mix has been achieved. To ensure thorough mixing pour materials into a clean container and mix again for at least 1,0 minute to achieve a smooth consistent mix. Excessive mixing must be avoided to minimise air entrainment. During the final mixing stage, scrape down the sides and bottom of the mixing container with a straight edge trowel or spatula at least once to ensure complete mixing. Mix full units only. Mixing time for A+B = ~4,0 minutes.

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Self-Smoothing Resin

Prior to mixing all parts, mix separately Part A (resin) using a low speed single paddle electric stirrer (300 - 400 rpm). Add Part B (hardener) to Part A and mix part A + B continuously for 3,0 minutes until a uniform mix has been achieved. When Parts A and B have been mixed. Using an electric double paddle mixer (>700W), pan type revolving, forced action mixer or other similar equipment (free fall mixers must not be used). Gradually add the required granulometry of dried quartz sand and if required Extender T. Mix for a further 2,0 minutes until a uniform mix has been achieved. To ensure thorough mixing, pour materials into another container and mix again to achieve a smooth consistent mix. Excessive mixing must be avoided to minimise air entrainment. 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. Mix full units only. Mixing time for A+B+quartz sand = 5,0 minutes.

APPLICATION

Strictly follow installation procedures as defined in method statements, application manuals and working instructions which must always be adjusted to the actual site conditions.

Prior to application, confirm substrate moisture content, relative air humidity and dew point. If > 4 % pbw moisture content, Sikafloor®

Refer to the individual System Data Sheet for the applications required.

Primer

Pour mixed Sikafloor®-156 /-160 /-161 primer onto the prepared substrate and apply by brush, roller or squeegee then back roller in two directions at right angles to each other. Ensure a continuous, pore free coat covers the substrate. If necessary, apply two priming coats.

Confirm waiting /overcoating time has been achieved before applying subsequent products. Refer to individual primer Product Data Sheet.

Levelling

Rough surfaces must be levelled first using Sikafloor®-150/-151/-156 /-160 /-161 levelling mortar. Confirm waiting /overcoating time has been achieved before applying subsequent products. Refer to individual Product Data Sheet.

Coating

Apply Sikafloor®-264 onto the prepared substrate using a short-piled roller, brush or squeegee in two directions at right angles to each other. A seamless finish can be achieved if a 'wet' edge is maintained during application.

Self - smoothing wearing layer

Pour mixed Sikafloor®-264 onto prepared substrate and spread evenly using a suitable trowel or pin leveler to the required thickness.

Spike roller immediately in two directions at right angles to each other to remove trowel marks, aid air release, ensure an even thickness and obtain the required surface finish. A seamless finish can be achieved if a 'wet' edge is maintained during application.

Slip-resistant broadcast layer

Pour mixed Sikafloor®-264 onto prepared substrate and spread evenly using a suitable trowel or pin leveler to the required thickness.

Spike roller immediately in two directions at right angles to each other to aid air release and ensure an even thickness. After about 15 minutes (at +20 °C) but before 30 minutes (at +20 °C), broadcast with quartz sand or silicon carbide, at first lightly and then to excess to produce an even distribution surface profile. Allow Sikafloor®-264 to initially cure and remove all loose sand by vacuum extraction equipment.

Seal / Top coat

After waiting the required overcoating time / curing, pour the mixed Sikafloor®-264 onto the slip resistant broadcast layer and spread evenly using a squeegee at the required consumption rate to completely encapsulate the sand. Then using a short-piled roller, back roller in two directions at right angles to each other. A seamless finish can be achieved if a 'wet' edge is maintained during application.

CLEANING OF EQUIPMENT

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

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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