

PRODUCT DATA SHEET

Sikafloor®-264 N

2-part epoxy high build smooth coating and seal coat.

DESCRIPTION

Sikafloor®-264 N is a 2-part epoxy coloured resin that can provide a hard wearing, seamless, low maintenance, smooth gloss finish or slip resistant finish when broadcast with different aggregate grades. Varying thickness's can be achieved from 0.6–3.0 mm. For medium - heavy wear conditions. Internal use.

USES

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

- High build smooth coating system for concrete and cementitious screeds with normal up to medium heavy wear e.g. clean rooms, storage and assembly halls, maintenance workshops, garages and loading ramps.
- Seal / Top coat for slip resistant broadcast systems, such as multi-storey and underground car park decks, maintenance hangars and for wet process areas, e.g. beverage and food industry

CHARACTERISTICS / ADVANTAGES

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

SUSTAINABILITY

- Conformity with LEED v4 EQc 2: Low-Emitting Materials

APPROVALS / CERTIFICATES

- Particle emission ISO 14644-1, CSM Statement of Qualification – class 3, Fraunhofer IPA Report No. SI 1709-952.
- Outgassing behavior ISO 14644-8, CSM Statement of Qualification – class 6,5, Fraunhofer IPA Report No. SI 1709-952.
- Reaction to fire classification according to EN 13501-1, Report-No KB-Hoch-170619, Hoch Fladungen, Germany, May 2017
- Reaction to fire classification according to EN 13501-1, Report-No KB-Hoch-170625, Hoch Fladungen, Germany, May 2017.
- CE-marking and Declaration of Performance as coating for surface protection of concrete according to EN 1504-2:2004, based on certificate of factory production control issued by notified factory production control certification body and type testing.
- CE-marking and Declaration of Performance as synthetic resin screed material according to EN 13813:2002, based on type testing and factory production control
- Certificate of conformity for indirect food contact, Institut Fresenius, Report No. 3419034-01, Germany, November 2017
- Testing of paint compatibility (Audi, BMW, Daimler and VW)
- ILF Magdeburg: Decontaminability, Report No. 170280



PRODUCT INFORMATION

Composition	Epoxy	
Packaging	Part A	7.9 kg, 23.7 kg, 220 kg containers
	Part B	2.1 kg, 6.3 kg, 59 kg, 177 kg containers
	Part A+B	10 kg, 30 kg ready to mix units
	Part A	220 kg drums
	Part B	59 kg, 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 / Colour	Resin - part A	coloured, liquid
	Hardener - part B	transparent, liquid
	<p>Almost all colours possible Except when Sikafloor®-264 N is applied as a thin coating the availability of colours is limited. Please contact the technical department on site. Slight colour deviations are unavoidable due to raw material-related reasons. In the case of light colours (yellow or orange range) filling with quartz sand colour deviations occur. In addition the opacity of these shades is limited when used as a topcoat. Carry out preliminary tests! In direct sunlight, changes in color shade may happen. This does not affect the technical functionality impaired.</p>	
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. Always refer to packaging.	
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 % Total solid epoxy composition acc. to the test method Deutsche Bauchemie e.V. (German Association for construction chemicals)	
Solid content by volume	~100 %	

TECHNICAL INFORMATION

Shore D Hardness	~76 (7 days / +23 °C)	(DIN EN ISO 868)
Abrasion resistance	~25 mg (CS 10/1000/1000) (8 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 strain at break	> 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**System****Thin coating, ca. 0,5 mm: Sikafloor® MultiDur ES-14 N**

Coating System	Product	Consumption
Primer:	Sikafloor®-150 /-151 /-264 N	1 - 2 x 0,35 - 0,55 kg/m ²
Top coat:	Sikafloor®-264 N	1 - 2 x 0,25 - 0,30 kg/m ²

Textured coating, ca. 1,0 mm: Sikafloor® MultiDur ET-14 N

Coating System	Product	Consumption
Primer:	Sikafloor®-150 /-151 /-264 N	0,30 - 0,50 kg/m ²
Basis coat:	Sikafloor®-264 N Thixo oder Sikafloor®-264 N + 1 - 2 % Sika® Stellmittel T	1 - 2 x 0,50 - 0,80 kg/m ² per layer

Tile covering, ca. 1,0 mm: Sikafloor® MultiDur ES-26 N

Coating System	Product	Consumption
Primer:	Sikafloor®-150 /-151 /-264 N	0,30 - 0,50 kg/m ²
Basis coat:	1 Gew.-Teil Sikafloor®-264 N + 0,4 pbw.-Teil Sikafloor® Filler-1	1,60 kg/m ² 1,15 kg/m ² Binding agent + 0,45 kg/m ² Sikafloor® Filler-1

Tile covering, ca. 1,5 - 3,0 mm: Sikafloor® MultiDur EB-26 N

Coating System	Product	Consumption
Primer:	Sikafloor®-150 /-151 /-264 N	0,3 - 0,50 kg/m ²
Basis coat:	1 pbw Sikafloor®-264 N + 0,7 pbw. quartz sand 0,1-0,3 mm	~ 1.70 kg/m ² mixture per mm layer thickness 1.0 kg/m ² binder agent + 0.7 kg/m ² quartz sand

Bedding, ca. 4,0 mm: Sikafloor® MultiDur EB-40 N

Coating System	Product	Consumption
Primer:	Sikafloor®-150 /-151 /-264 N	0,30 - 0,50 kg/m ²
Basis coat:	1 pbwl Sikafloor®-264 N + 0,7 Gew.-Teil Quarzsand 0,1-0,3 mm	2,00 kg/m ² 1,40 kg/m ²
Scattering:	quartz sand 0,3-0,8 mm in excess	4,00 - 6,00 kg/m ²
Top coat:	Sikafloor®-264 N	0,60 - 0,80 kg/m ²

Alternatively, Sikafloor®-701 can be used. Please refer to the corresponding product data sheet.

At lower temperatures, lower layer thicknesses or special colour shades it may be necessary to reduce the proportion of quartz sand.

These are theoretical values and do not include additions for surface porosity, surface roughness, level differences and residual material in the container, etc.

APPLICATION INFORMATION

Mixing ratio	Part A : part B = 79 : 21 (by weight)			
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	Substrate temperature	Minimum	Maximum	
	+10 °C	30 hours	3 days	
	+20 °C	24 hours	2 days	
	+30 °C	16 hours	1 day	
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	~ 6days	~10 days
	+20 °C	~24 hours	~ 4days	~7 days
	+30 °C	~18 hours	~ 2days	~5 days

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

Substrate Quality & Preparation

Refer to Sika Method Statement: "EVALUATION AND PREPARATION OF SURFACES FOR FLOORING SYSTEMS".

Application Instructions

Refer to Sika Method Statement: "MIXING & APPLICATION OF FLOORING SYSTEMS".

Maintenance

Refer to "Sikafloor®- CLEANING REGIME".

IMPORTANT CONSIDERATIONS

- Do not apply Sikafloor®-264 N on substrates with rising moisture.
- Do not blind the primer.
- Freshly applied Sikafloor®-264 N 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®-150/-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®-264 N 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.

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. Further notes and information data sheets on product safety and disposal can be found on the Internet at www.sika.de.

CE-KENNZEICHNUNG

See declaration of performance
GISCODE: RE 30 (previously RE 1)

DIRECTIVE 2004/42/CE LIMITATION OF EMISSIONS OF VOC

According to the EU Directive 2004/42/CE, the maximum allowed content of VOC (product category IIA / j type sb) is 500 g/l (Limits 2010) for the ready to use product.

The maximum content of Sikafloor®-264 N 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 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

Coatings

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. To ensure thorough mixing pour materials into another container and mix again to achieve a smooth consistent mix. Over mixing must be avoided to minimise air entrainment.

Self-Smoothing Resin

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 Extender T. 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 smooth consistent mix. Over mixing must be avoided to minimise air entrainment.

Mixing Tools

Sikafloor®-264 N (unfilled) must be thoroughly mixed using a low speed electric stirrer (300–400 rpm) or other suitable equipment. For the preparation of a self-smoothing resin, use a forced action mixer or rotating pan, paddle or trough type. Free fall mixers should not be used.

PRODUCT DATA SHEET

Sikafloor®-264 N

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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 temporary moisture barrier (T.M.B.) system.

Primer

Ensure a continuous, pore free coat covers the substrate. If necessary, apply two priming coats. Apply Sikafloor®-150 /-161 /-160 by brush, roller or squeegee.

Preferred application is by using a squeegee and then back rolling in two directions at right angles to each other.

Levelling

Rough surfaces need to be levelled first. Therefore use e.g. Sikafloor®-150/-161/-160 levelling mortar (see PDS).

High Build Smooth Coating

Sikafloor®-264 N can be applied using a short-piled roller in two directions at right angles to each other.

Self-Smoothing Finish

Sikafloor®-264 N is poured and spread evenly using a suitable trowel/pin rake 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 required surface finish.

Slip Resistant Broadcast Coating

Apply a scratch coat to substrate and immediately broadcast with quartz sand to excess to produce an even distribution surface profile. Allow scratch coat to initially cure and remove all loose sand by vacuum equipment. Apply a final seal/top coat of Sikafloor®-264 N. For application onto damp substrates, refer to Sikafloor® MultiDur EB-12 ECC system data sheet for primer and levelling product changes.

Seal coat

Apply seal/top coat of Sikafloor®-264 N by squeegee at a consumption of 0,6–0,8 kg/m² to completely encapsulate the sand. Then using a short-piled roller, back roller in two directions at right angles to each other.

CLEANING OF EQUIPMENT

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®-264 N 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

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 the 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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PRODUCT DATA SHEET

Sikafloor®-264 N

April 2021, Version 05.02

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