

## PRODUCT DATA SHEET

# Sikafloor®-264

### HIGH BUILD MULTI PURPOSE SELF SMOOTHENING ROLLER APPLIED EPOXY COATING

#### DESCRIPTION

Sikafloor®-264 is a two part multi purpose, coloured high build self smoothening epoxy resin coating. Sikafloor®-264 is used in a range of Roller Applied and Self Levelling flooring systems and applications.

#### USES

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

Sikafloor®-264 is used in:

- Manufacturing facilities
- Car park decks - Intermediate and basements
- Automotive workshops
- Clean rooms
- Amenities areas
- Educational trade facilities
- Base Coat for Vinyl Flake systems
- Scratch Coats
- As a clear primer without the addition of Pigment (Sikafloor 161) Please refer to Sikafloor 161 PDS

#### CHARACTERISTICS / ADVANTAGES

- Good chemical and mechanical resistance
- Easy application
- Liquid proof
- Gloss finish
- Slip resistant surface possible
- Low VOC

#### SUSTAINABILITY

Conformity with LEED v2009 IEQc 4.2: Low-Emitting Materials - Paints and Coatings

#### APPROVALS / CERTIFICATES

- VOC compliance as per Australian Standards Test ASTM D3960 Green Star V2 IEQ-13 and V1 IEQ-11
- Textures comply with P Ratings - Australian Standard AS 4586- 2013
- Particle emission certificate Sikafloor-264 CSM Statement of Qualification – ISO 14644-1, class 4– Report No. SI 0904-480 and GMP class A, Report No. SI 1008-533.
- Outgassing emission certificate Sikafloor-264: CSM Statement of Qualification – ISO 14644-8, class 6,5 - Report No. SI 0904-480.
- Good biological Resistance in accordance with ISO 846, CSM Report No. 1008-533
- Fire classification in accordance with EN 13501-1, Report-No. 2013-B-2119/01, MPA Dresden, Germany, June 2013.
- Synthetic resin screed material according to EN 13813:2002, Declaration of Performance 02 08 01 02 05 00000003 1008, and provided with the CE marking.
- Coating for surface protection of concrete according to EN 1504-2:2004, Declaration of Performance 02 08 01 02 05 00000003 1008, certified by notified factory production control certification body 0921, certificate of conformity of the factory production control 2017, and provided with the CE marking.
- ISEGA Certificate of Conformity 40974 U15



## PRODUCT INFORMATION

<b>Composition</b>	Epoxy		
<b>Packaging</b>	Part A	13.09kg containers	
	Part B	4.0 kg containers	
	Sikafloor Pigment 1.15kg	2 x 1.15kg	
	Part A+B+ Pigment	19.40kg ready to mix units (13.56L)	
	Part A	6.55kg	
	Part B	2.0kg	
	Sikafloor Pigment 1.15kg	1 x 1.15kg	
	Part A+B+Pigment	9.7kg ready to mix units (6.78L)	
	Part A	20 kg bulk	
	Part B	20kg bulk	
	Part A+B	Measured out as per A+B ratio and pigment added as required	
	<b>Appearance / Colour</b>	Resin - part A	coloured, liquid
Hardener - part B		transparent, liquid	
Extended colour range			
<p>RAL 7035 Light Grey - 7040 Window Grey - Koala Grey N45 - Dusty Grey 7037 - Oxide Red 3009 - Sky Blue 5015 - Dahlia Yellow 1033 Other colours on request. Some lighter colours may require additional pigment dosage and / or the addition of white pigment in the primer to achieve satisfactory colour coverage . Refer to Sika Technical Dept. for direction. Under direct sun light there may be some discolouration and colour variation; this has no influence on the function and performance of the coating.</p>			
<b>Shelf life</b>	12 months from date of production		
<b>Storage conditions</b>	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +30 °C.		
<b>Density</b>	Part A	~ 1,50 kg/l	(DIN EN ISO 2811-1)
	Part B	~ 1,00 kg/l	
	Mixed resin	~ 1,43 kg/l	
	All Density values at +23 °C.		
<b>Solid content by weight</b>	~100 %		
<b>Solid content by volume</b>	~100 %		

## TECHNICAL INFORMATION

<b>Shore D Hardness</b>	~76 (7 days / +23 °C)	(DIN 53 505)
<b>Abrasion Resistance</b>	~35 mg (CS 10/1000/1000) (7 days / +23 °C)	(DIN 53109)
<b>Compressive Strength</b>	~53 N/mm <sup>2</sup> (Resin filled 1:0.9 with F34) (28 days / +23 °C)	(EN196-1)
<b>Tensile Strength in Flexure</b>	~20 N/mm <sup>2</sup> (Resin filled 1:0.9 with F34) (28 days / +23 °C)	(EN 196-1)
<b>Tensile Adhesion Strength</b>	> 1,5 N/mm <sup>2</sup> (failure in concrete)	(ISO 4624)
<b>Chemical Resistance</b>	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.

## SYSTEMS

### Systems

Please refer to the system data sheet of :

Sikafloor® MultiDur ES-14	High build Smooth epoxy coating system
Sikafloor® MultiDur EB-24	Textured 3-4mm epoxy floor covering with high mechanical resistance
Sikafloor® MultiDur ES-26	Multicoloured vinyl chip flooring covering
Sikafloor® MultiDur EB-14	High build Textured epoxy floor coating system
Sikafloor® MultiDur EB-26	Textured 3-4mm multicoloured sand epoxy floor with high mechanical resistance

Note; Sikafloor 264 is also used in ET-14 as a base coat - Refer to System TDS

## APPLICATION INFORMATION

### Mixing Ratio

Part A : part B = 79 : 21 (3.8:1 by weight) - 2.4 :1 by volume

### Consumption

~0,25–0,3 kg/m<sup>2</sup> applied as a roller coating  
~0,9–1,2 kg/m<sup>2</sup>/mm applied as a self-smoothing wearing course or as finish locking coats on textured finishes.  
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, please refer to the System data sheet Sikafloor® MultiDur ES-14 Sikafloor® MultiDur ES-24 and Multidur EB-24

### 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).  
For readings up to 6% pbw, prime using Sikafloor 161.  
For readings above 6% pbw and for hydrostatic moisture issues use Sikafloor 81 Epocem.

### 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:

<b>Substrate temperature</b>	<b>Minimum</b>	<b>Maximum</b>
+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

<b>Temperature</b>	<b>Foot traffic</b>	<b>Light traffic</b>	<b>Full cure</b>
+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.

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

- The concrete substrate must be sound and of sufficient compressive strength (minimum 25 N/mm<sup>2</sup>) with a minimum pull off strength of 1,5 N/mm<sup>2</sup>.
- 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

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®-264 must be thoroughly mixed using a low speed electric stirrer (300 - 400 rpm) or other suitable equipment. For the preparation of mortars use a forced action mixer of rotating pan, paddle or trough type. Don't use free fall mixers.

### 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 T.M.B. (temporary moisture barrier) system. For up to 6% pbw, prime with sikafloor 161

### Primer:

Make sure that a continuous, pore free coat covers the substrate. If necessary, apply two priming coats. Apply Sikafloor®- 161 /-160 by roller or squeegee. Preferred application is by using a squeegee and then backrolling crosswise.

### Levelling:

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

### Coating:

Sikafloor®-264 as coating, can be applied by medium to long-piled roller (crosswise).

### Seal coat:

Sealer coats can be applied by squeegee and then back-rolled (crosswise) with a medium to long-piled roller.

### 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 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

## FURTHER INFORMATION

### Substrate quality & Preparation

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

### Application instructions

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

### Maintenance

Please refer to "Sikafloor®- CLEANING REGIME".

## IMPORTANT CONSIDERATIONS

- Do not apply Sikafloor®-264 on substrates with rising moisture.
- Do not blind the primer.
- Minimum and maximum air and substrate temps. for application +10 Degrees to +30 Degrees C.
- Maximum air humidity 85% r.h.
- 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®-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 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 CO<sub>2</sub> and H<sub>2</sub>O water vapour, which may adversely affect the finish. For heating use only electric powered warm air blower systems.

## 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.

## 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.

## ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical product, users shall refer to the most recent Safety Data Sheet. (SDS) containing physical, toxicological and other safety related 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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**Product Data Sheet**

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