BUILDING TRUST

PRODUCT DATA SHEET

Sikafloor®-264 SG

2-part High-build Solvent Free Epoxy Coating

DESCRIPTION

Sikafloor®-264 SG is a two-part, high-build, solvent free, coloured epoxy resin.
Suitable for use in hot and tropical climatic conditions.

USES

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

Sikafloor®-264 SG can be used as a:
- Roller coat for concrete and cement screeds with normal up to medium heavy wear for example storage and assembly halls, maintenance workshops, garages and loading ramps.
- A broadcast system for multi-storey and underground car parks, maintenance hangars and for wet process areas, for example beverage and food industry.

CHARACTERISTICS / ADVANTAGES

- Good chemical and mechanical resistance
- Easy application
- Economical
- Liquid proof
- Gloss finish
- High Slip resistant surface when broadcasted

SUSTAINABILITY

- Sikafloor®-264 SG is certified according "Low Emitting Materials as per Al Sa'fat - Dubai Green Building Evaluation System" by Dubai Central Laboratory (DCL), certificate No. CL17020432
- LEED Raiting: Sikafloor®-264 SG conforms to the requirements of LEED EQ Credit 4.2: Low-Emitting Materials: Paints and Coatings with VOC Content <100 g/l
- California Department of Public Health (CDPH) Method - VOC emission test: PASS

APPROVALS / CERTIFICATES

- Certified by Dubai Civil Defence (DCD)

PRODUCT INFORMATION

Composition	Pigmented epoxy resin
Packaging	Please refer to local country price list for available packaging sizes:

Part A (container)	4.12 kg	19.80 kg	23.10 kg
Part B (container)	0.88 kg	4.20 kg	4.90 kg
Part A + B (set)	**5.00 kg**	**24.00 kg**	**28.00 kg**

Shelf life	12 months from date of production.
Storage conditions	Store in a dry area in original sealed packaging at temperatures between +5 °C and +30 °C. Protect from direct sunlight, heat and moisture.
Appearance and colour	Resin - Part A: Coloured, liquid Hardener - Part B: Transparent, liquid Available in various colour shades, please request Sika sales representative for colour chart. Under direct sun light there might be some discolouration and colour variation which have no influence on the function and performance of the coating.

Density	Part A (at 23 °C)	~1.73 kg/l	(DIN EN ISO 2811-1)
	Part B (at 23 °C)	~1.00 kg/l	
	Mixed resin (at 23 °C)	~1.55 kg/l	

Solid content by mass	~100 % Note: Total solid epoxy composition acc. to the test method Deutsche Bauchemie e.V. (German Association for construction chemicals)
Solid content by volume	~100 % Note: Total solid epoxy composition acc. to the test method Deutsche Bauchemie e.V. (German Association for construction chemicals)

TECHNICAL INFORMATION

Shore D Hardness	~80 (7 d / +23 °C)	(ASTM D2240-15)
Abrasion resistance	<50 mg (CS 17/1000/1000) (28 d / +23 °C)	(ASTM D4060-14) (Taber Abraser Test)
Resistance to impact	~1.5 kg-m	(ASTM D2794-93)
Compressive strength	≥ 75 N/mm² (28 d / +23 °C)	(ASTM C579-18)
Tensile strength	~18 N/mm² (28 d / +23 °C)	(ASTM C307-18)
Tensile adhesion strength	> 1.5 N/mm² (failure in concrete)	(BS 1881 Part 207)

Temperature resistance	Exposure	Dry heat
	Permanent	+50 °C
	Short-term max. 7d	+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.

Water absorption	~0.05%	(ASTM C413-01)
Chemical resistance	Resistant to many chemicals. Please contact Sika's Technical Department for chemical resistance table.	

SYSTEM INFORMATION

Systems

Roller coating:
Primer*: 1 - 2 x Sikafloor®-161 (optional)
Coating: 2 x Sikafloor®-264 SG

Textured roller coating:
Primer*: 1 - 2 x Sikafloor®-161 (optional)
Coating: 1 - 2 x Sikafloor®-264 SG + Extender T

Textured roller coating with improved slip resistance:
Primer*: 1 - 2 x Sikafloor®-161 (optional)
Coating: 1 x Sikafloor®-264 SG + Extender T + Sikadur®-504

Broadcast system:
Primer*: 1 - 2 x Sikafloor®-161 (optional)
Base coat: 1 x Sikafloor®-264 SG
Broadcasting: Sikadur®-507 / Sikadur®-509
Sealer coat: 1 x Sikafloor®-264 SG

***Note:** In cases of limited exposure and good sound low absorbent concrete substrates, priming with Sikafloor®-161 is not mandatory. It is recommended to check the absorbency in case pinholes will occur.

Consumption

Coating System	Product	Consumption
Primer	1 - 2 x Sikafloor® -161	0.25 - 0.40 kg/m² per coat
Levelling (optional)	Sikafloor® PS or, Sikafloor®-161 levelling mortar	Refer to relevant PDS
Roller coating	2 x Sikafloor®-264 SG	0.25 - 0.35 kg/m² per coat
Textured roller coating	1 - 2 x Sikafloor®-264 SG + Extender T	0.5 - 0.8 kg/m² per coat 2 - 3 %
Textured roller coating with improved slip resistance	10 pbw Sikafloor®-264 SG + Extender T + 1 pbw Sikadur®-504	0.5 - 0.8 kg/m² 2 - 3 % 0.05 - 0.07 kg/m²
Broadcast system	Sikafloor®-264 SG + broadcasting Sikadur®-507 / Sikadur®-509 + Sealcoat Sikafloor®-264 SG	0.25 - 0.30 kg/m² 0.50 - 2.00 kg/m² 0.35 - 0.40 kg/m²

These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level and wastage etc.

Ambient air temperature

+10 °C min. / +35 °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. / +35 °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	~60 min
+20 °C	~30 min
+30 °C	~15 min

Curing time

Before applying Sikafloor®-264 SG on Sikafloor®-161 allow:

Substrate temperature	Minimum	Maximum
+10 °C	24 h	3 d
+20 °C	12 h	2 d
+30 °C	8 h	1 d

Before applying Sikafloor®-264 SG on Sikafloor®-264 SG allow:

Substrate temperature	Minimum	Maximum
+10 °C	30 h	3 d
+20 °C	24 h	2 d
+30 °C	16 h	1 d

Times are approximate and will be affected by changes in ambient conditions, particularly temperature and relative humidity.

Applied product ready for use

Temperature	Foot Traffic	Light Traffic	Full cure
+10 °C	~72 h	~6 d	~10 d
+20 °C	~24 h	~4 d	~7 d
+30 °C	~18 h	~2 d	~5 d

Note: Curing 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

- **General Method Statement**

Please refer to Sikafloor®-264 SG - General MS

- **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 SG on substrates with rising moisture.
- Freshly applied Sikafloor®-264 SG 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 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 SG 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_2 and H_2O water vapour, which may adversely affect the finish. For heating use only electric powered warm air blower systems.

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

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

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 TOOL

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

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.

Primer:
Make sure that a continuous, pore free coat covers the substrate. If necessary, apply two priming coats. Apply Sikafloor®-151, Sikafloor®-161 and Sikafloor®-161 G by brush, roller or squeegee. Preferred application is by using a squeegee and then backrolling crosswise.

Levelling:
Rough or unlevelled surfaces need to be levelled first. Use Sikafloor®-161 levelling mortar or Sikafloor® PS (see Product Data Sheet) for minor thickness surface leveling. For higher thickness leveling, use Sikafloor®-190 Screed.

Coating:
Sikafloor®-264 SG as coating, can be applied by short-piled roller (crosswise).

Seal coat:
Sealer coats can be applied by squeegee and then back-rolled (crosswise) with a short-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

CLEANING

To maintain the appearance of the floor after application, Sikafloor®-264 SG 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. For further details please refer to the Method Statement "Cleaning & Maintenance of Sikafloor® Systems".

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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