BUILDING TRUST

PRODUCT DATA SHEET

Sikafloor®-264

2-part epoxy roller and seal coat

DESCRIPTION

Sikafloor®-264 is a two part coloured epoxy resin.
"Total solid epoxy composition acc. to the test method Deutsche Bauchemie e.V. (German Association for construction chemicals)"

USES

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

Sikafloor®-264 is used as:
- Roller coat for concrete and cement screeds with normal up to medium heavy wear e.g. storage and assembly halls, maintenance workshops, garages and loading ramps.
- Seal coat for broadcast systems, such as multi-storey and underground car parks, maintenance hangars and for wet process areas, e.g. beverage and food industry

FEATURES

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

CERTIFICATES AND TEST REPORTS

- 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 and provided with the CE marking.
- Coating for surface protection of concrete according to EN 1504-2:2004 and provided with the CE marking.
- ISEGA Certificate of Conformity 40974 U15

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 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

Please contact our customer service, for information of what packaging sizes are sold in Denmark.

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.
Please contact our customer service, for information of which colors are sold in Denmark.

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/mm² (Resin filled 1:0.9 with F34) (28 days / +23 °C)	(EN196-1)
Flexural-strength	~20 N/mm² (Resin filled 1:0.9 with F34) (28 days / +23 °C)	(EN 196-1)
Tensile adhesion strength	> 1,5 N/mm² (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.

APPLICATION INFORMATION

Mixing ratio

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

Consumption

~0,25–0,3 kg/m² applied as a roller coating
~0,9–1,2 kg/m²/mm applied as a self-smoothing wearing course
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 and Sikafloor® MultiDur ES-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).

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.

SYSTEM INFORMATION

Systems

Please refer to the system data sheet of :

Sikafloor® MultiDur ES-14	Unicolour epoxy roller coat
Sikafloor® MultiDur EB-24	Broadcast unicolour epoxy floor covering with high mechanical resistance
Sikafloor® MultiDur ES-26	Unicolour smooth epoxy flooring covering
Sikafloor® MultiDur EB-14	Broadcast unicolour epoxy floor covering thin layer

Click here to see available System Datasheets:
Sikafloor®-264

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 DOCUMENTATION

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.
- 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®-150/-151 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_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

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.

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 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 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.

Primer:
Make sure that a continuous, pore free coat covers the substrate. If necessary, apply two priming coats. Apply Sikafloor®-150/-151 by brush, 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®-150/-151 levelling mortar (see PDS).

Coating:
Sikafloor®-264 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 INSTRUCTIONS

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.

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.

LEGAL NOTES

Any information or suggestions for use concerning Sika's products, which we either in writing or orally have given buyers or end-users of the product, have been given in good faith based on our own experiences and based on approved praxis and the technological and scientific knowledge on the time of giving such suggestions and information, which are given without any type of guarantees, and which do not lead to any further responsibility from Sika Danmark A/S, besides what is stated in the sales agreement in question. The buyer or end-user should themselves investigate or otherwise make sure, that our products are suitable for the use in question and further make sure that the products are kept and used correct and in agreement with the published rules and considering the actual conditions in order to avoid damages or less satisfactory results. Any order is accepted and any deliverance is affected according to the general terms of sales and delivery from Sika Danmark A/S, which are considered known and accepted, and which could be handed out when asked for. Our catalogues are not up-dated automatically. The present product data sheet is only for use in Denmark. Values stated in the present product data sheet should be seen as recommended, unless stated otherwise.

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