BUILDING TRUST

PRODUCT DATA SHEET

Sikafloor®-264 ZA

2-part epoxy roller and seal coat

DESCRIPTION

Sikafloor®-264 ZA 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 ZA 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

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

APPROVALS / STANDARDS

Particle emission certificate Sikafloor-264 ZA CSM Statement of Qualification – ISO 14644-1, class 4– Report No. SI 0904-480 and and GMP class A, Report No. SI 1008-533..
Outgassing emission certificate Sikafloor-264 ZA: 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. 2007-B-0181/16, MPA Dresden, Germany, February 2007.
ISEGA Certificate of Conformity 31964 U 11

PRODUCT INFORMATION

Chemical Base	Epoxy	
Packaging	Part A	10ltr or 15.8kg containers
	Part B	4.2ltr or 4.2kg containers
	Part A+B	14.2ltr or 20kg containers
Shelf Life	24 months from date of production	
Storage Conditions	The packaging must be stored properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5°C and +30°C.	

Appearance / Colour	Resin - part A: coloured, liquid Hardener - part B: transparent, liquid Standard colour range RAL 7032, 7037, 7038, 1002 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.

Density	Part A	~ 1.57 kg/l	(DIN EN ISO 2811-1)
	Part B	~ 1.00 kg/l	
	Mixed resin	~ 1.41 kg/l	

Solid content by weight	~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 53 505)
Abrasion Resistance	70 mg (CS 10/1000/1000) (8 days / +23°C)	(DIN 53 109 (Taber Abrader Test))
Compressive Strength	Resin (filled 1:0,9 with QS SS2: ~ 50 N/mm2 (28 days / +23°C)	(EN 196-1)
Tensile Strength in Flexure	Resin (filled 1:0,9 with QS SS2): ~ 20 N/mm² (28 days / +23°C)	(EN 196-1)
Tensile Adhesion Strength	> 1.5 N/mm² (failure in concrete)	(ISO 4624)

Thermal 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.

Chemical Resistance	Resistant to many chemicals. Please ask for a detailed chemical resistance table

SYSTEM INFORMATION

Systems

Please refer to the system data sheet of :

Sikafloor® MultiDur ES-15	High build smooth coloured epoxy floor coating system
Sikafloor® MultiDur ES-21	Smooth coloured epoxy floor system
Sikafloor® MultiDur EB-12	Slip resistant broadcast coloured epoxy floor coating system
Sikafloor® MultiDur EB-12 ECC	Slip resistant broadcast coloured epoxy floor coating system for damp substrates

APPLICATION INFORMATION

Mixing Ratio

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

Consumption

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 Sikafloor® MultiDur ES-15 and Sikafloor® MultiDur ES-21.

~0,18–0,21 ltr/m²	High build coating
~0,6–1,2 ltr/m²/mm	Self-smoothing finish

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 Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

FURTHER DOCUMENTS

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”.

LIMITATIONS

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

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 ZA (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.

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®-161 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®-161 levelling mortar (see PDS).

High Build Smooth Coating
Sikafloor®-264 ZA can be applied using a short-piled roller in two directions at right angles to each other.

Self-Smoothing Finish
Sikafloor®-264 ZA 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 ZA. 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 ZA by squeegee at a consumption of 0,4–0,6 ltr/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 TOOLS

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 ZA 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 performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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