

**Product Data Sheet**  
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Sikafloor®-ZA



# Sikafloor®-264 ZA

## 2-part epoxy roller and seal coat

Construction

### Product Description

Sikafloor®-264 ZA is a two part, economic, coloured epoxy resin.

"Total solid epoxy composition acc. to the test method Deutsche Bauchemie e.V. (German Association for construction chemicals)"

### Uses

- 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

### Characteristics / Advantages

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

### Test

#### Approval / 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 Data

### Form

#### Appearance / Colours

Resin - part A: coloured, liquid  
Hardener - part B: transparent, liquid

Standard colour range  
RAL 7001, 7032, 7036, 7037, 7038, 6011, 6019, 6021, 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.

#### Packaging

Part A: 10.0ltr or 15.8kg containers  
Part B: 4.2ltr or 4.2kg containers  
Part A+B: 14.2ltr or 20kg ready to mix units

### Storage

#### Storage Conditions / Shelf-Life

24 months from date of production if stored properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5°C and +30°C.

### Technical Data

#### Chemical Base

Epoxy

#### Density

Part A: ~ 1.57 kg/l  
Part B: ~ 1.00 kg/l  
Mixed resin: ~ 1.41 kg/l

(DIN EN ISO 2811-1)

All Density values at +23°C.

#### Solid Content

~ 100% (by volume) / ~ 100% (by weight)

### Mechanical / Physical Properties

#### Compressive Strength

Resin (filled 1:0,9 with F34): ~ 50 N/mm<sup>2</sup> (28 days / +23°C)

(EN 196-1)

#### Flexural Strength

Resin (filled 1:0,9 with F34): ~ 20 N/mm<sup>2</sup> (28 days / +23°C)

(EN 196-1)

#### Bond Strength

> 1.5 N/mm<sup>2</sup> (failure in concrete)

(ISO 4624)

#### 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))

### Resistance

#### Chemical Resistance

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

#### 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.

#### USGBC

Sikafloor®-264 ZA conforms to the requirements of LEED

#### LEED Rating

EQ Credit 4.2: Low-Emitting Materials: Paints & Coatings

SCAQMD Method 304-91 VOC Content < 100 g/l

## System Information

### System Structure

#### Roller coating:

Primer\*: 1-2 x Sikafloor®-161 (optional)  
Coating: 2 x Sikafloor®-264 ZA

#### Textured roller coating:

Primer\*: 1-2 x Sikafloor®-161 (optional)  
Coating: 1 - 2 x Sikafloor®-264 ZA + Extender T

#### Textured roller coating with improved slip resistance:

Primer\*: 1-2 x Sikafloor®-161  
Coating: 1 x Sikafloor®-264 ZA + Extender T + quartz sand (0.1 - 0.5 mm)

#### Self-smoothing system 1.0 mm:

Primer: 1-2 x Sikafloor®-161  
Wearing course: 1 x Sikafloor®-264 ZA + Sikafloor® Filler 1

#### Self-smoothing system 1.5 - 3.0 mm:

Primer: 1-2 x Sikafloor®-161  
Wearing course: 1 x Sikafloor®-264 ZA + quartz sand (0.1 - 0.3 mm)

#### Broadcast system approx. 4 mm:

Primer\*: 1-2 x Sikafloor®-161  
Base coat: 1 x Sikafloor®-264 ZA + quartz sand (0.1 - 0.3 mm)  
Broadcasting: quartz sand (0.4 - 0.7 mm) broadcast to excess  
Seal coat: 1 x Sikafloor®-264 ZA

\*Note: In cases of limited exposure and normal absorbent concrete substrates priming with Sikafloor®-161 is not necessary.

## Application Details

### Consumption / Dosage

Coating System	Product	Consumption
Primer	1-2 x Sikafloor® -161	1-2 x 0.35 - 0.55 kg/m <sup>2</sup>
Levelling (optional)	Sikafloor®-161 levelling mortar	Refer to PDS of Sikafloor®-161
Roller coating	2 x Sikafloor®-264 ZA	0.25 - 0.3 kg/m <sup>2</sup> for each layer
Textured roller coating	1 - 2 x Sikafloor®-264 ZA + Extender T	0.5 - 0.8 kg/m <sup>2</sup> per layer
Textured roller coating with improved slip resistance	10 pbw Sikafloor®-264 ZA + Extender T + 1 pbw quartz sand (0.1 - 0.5 mm)	0.5 - 0.8 kg/m <sup>2</sup> 0.05 - 0.07 kg/m <sup>2</sup>
Self-smoothing wearing course (Film thickness ~ 1.0 mm)	1 pbw Sikafloor®-264 ZA 0.4 pbw Sikafloor® Filler 1	1.6 kg/m <sup>2</sup> mixture (1.15 kg/m <sup>2</sup> binder + 0.45 kg/m <sup>2</sup> Filler 1)
Self-smoothing wearing course (Film thickness ~ 1.5 - 3.0 mm )	1 pbw Sikafloor®-264 ZA 1 pbw quartz sand (0.1 - 0.3 mm)	1.9 kg/m <sup>2</sup> mixture (0.95 kg/m <sup>2</sup> binder + 0.95 kg/m <sup>2</sup> quartz sand) per mm layer thickness
Broadcast system (Film thickness ~ 4.0 mm)	1 pbw Sikafloor®-264 ZA 1 pbw quartz sand (0.1 - 0.3 mm) + broadcasting quartz sand 0.4 -0.7 mm + Seal coat Sikafloor®-264 ZA	2.00 kg/m <sup>2</sup> 2.0 kg/m <sup>2</sup> ~ 6.0 kg/m <sup>2</sup> ~ 0.7 kg/m <sup>2</sup>

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

### Substrate Quality

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.

If in doubt, apply a test area first.

<b>Substrate Preparation</b>	<p>Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface.</p> <p>Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed.</p> <p>Repairs to the substrate, filling of blowholes/voids and surface levelling can be carried out using appropriate products from the Sikafloor<sup>®</sup>, SikaDur<sup>®</sup> and SikaGard<sup>®</sup> range of materials.</p> <p>The concrete or screed substrate has to be primed or levelled in order to achieve an even surface.</p> <p>High spots must be removed by e.g. grinding.</p> <p>All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum.</p>
<b>Application Conditions / Limitations</b>	
<b>Substrate Temperature</b>	+10°C min. / +30°C max.
<b>Ambient Temperature</b>	+10°C min. / +30°C max.
<b>Substrate Moisture Content</b>	<p>≤ 4% pbw moisture content.</p> <p>Test method: Sika<sup>®</sup>-Tramex meter, CM - measurement or Oven-dry-method.</p> <p>No rising moisture according to ASTM (Polyethylene-sheet).</p>
<b>Relative Air Humidity</b>	80% r.h. max.
<b>Dew Point</b>	<p>Beware of condensation!</p> <p>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.</p> <p>Note: Low temperatures and high humidity conditions increase the probability of blooming.</p>
<b>Application Instructions</b>	
<b>Mixing</b>	Part A : part B = 79 : 21 (by weight)
<b>Mixing Time</b>	<p>Prior to mixing, stir part A mechanically. When all of part B has been added to part A, mix continuously for 2 minutes until a uniform mix has been achieved.</p> <p>To ensure thorough mixing pour materials into another container and mix again to achieve a consistent mix.</p> <p>Over mixing must be avoided to minimise air entrainment.</p>
<b>Mixing Tools</b>	Sikafloor <sup>®</sup> -264 ZA must be thoroughly mixed using a low speed stirrer (300 - 400 rpm) or other suitable equipment.
<b>Application Method / Tools</b>	<p>Prior to application, confirm substrate moisture content, r.h. and dew point. If &gt; 4% pbw moisture content, Sikafloor<sup>®</sup> EpoCem<sup>®</sup> may be applied as a T.M.B. (temporary moisture barrier) system.</p> <p><i>Primer:</i> Make sure that a continuous, pore free coat covers the substrate. If necessary, apply two priming coats. Apply Sikafloor<sup>®</sup>-156 / 161 by brush, roller or squeegee. Preferred application is by using a squeegee and then backrolling crosswise.</p> <p><i>Levelling:</i> Rough surfaces need to be levelled first. Therefore use e.g. Sikafloor<sup>®</sup>-156/-161 levelling mortar (see PDS).</p> <p><i>Coating:</i> Sikafloor<sup>®</sup>-264 ZA as coating, can be applied by short-piled roller (crosswise).</p> <p><i>Seal coat:</i> Sealer coats can be applied by squeegee and then back-rolled (crosswise) with a short-piled roller.</p>
<b>Cleaning of Tools</b>	Clean all tools and application equipment with Thinner C immediately after use. Hardened and/or cured material can only be removed mechanically.

**Potlife**

Temperatures	Time
+10°C	~ 50 minutes
+20°C	~ 25 minutes
+30°C	~ 15 minutes

**Waiting Time / Overcoating**

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

Substrate temperature	Minimum	Maximum
+10°C	24 hours	3 days
+20°C	12 hours	2 days
+30°C	8 hours	1 day

Before applying Sikafloor®-264 ZA on Sikafloor®-263 SL ZA allow:

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.

**Notes on Application / 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®-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 ZA in each area is applied from the same control batch numbers.

Under certain conditions, under floor 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.

## Curing Details

### 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.

## Cleaning / Maintenance

### Methods

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.

### Value Base

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 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.

### Health and Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, 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.

### EU Regulation 2004/42

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

### VOC - Decopaint Directive

The maximum content of Sikafloor®-264 ZA is < 500 g/l VOC for the ready to use product.



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