

## PRODUCT DATA SHEET

# Sikafloor®-264 Thixo

### 2-part epoxy textured roller and seal coat

#### DESCRIPTION

Sikafloor-264 Thixo 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

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

- Coloured, textured 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
- Textured roller coat for areas, where slip resistance and easy cleanability is required

#### PRODUCT INFORMATION

<b>Composition</b>	Epoxy	
<b>Packaging</b>	Part A+B: 30 kg ready to mix unit	Part A: 23.7 kg Part B: 6.3 kg
<b>Appearance / Colour</b>	Resin - part A: coloured, liquid Hardener - part B: transparent, liquid Colour range: RAL 7030, 7032, 7035 Other colours on request.	
	For a better opacity of critical color shades like yellow or orange etc. it is recommended to use a higher rate of consumption. Under direct sun light there may be some discolouration and colour variation; this has no influence on the function and performance of the coating.	

#### CHARACTERISTICS / ADVANTAGES

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

#### APPROVALS / CERTIFICATES

##### USGBC LEED RATING

Sikafloor-264 Thixo conforms to the requirements of LEED EQ Credit 4.2:

Low-Emitting Materials: Paints & Coatings SCAQMD Method 304-91 VOC Content < 100 g/l

<b>Shelf life</b>	12 months from date of production.	
<b>Storage conditions</b>	The product should be stored properly in original, unopened and undamaged sealed packaging, in dry conditions at temperatures between +5°C and +30°C.	
<b>Density</b>	Part A: ~ 1.6 kg/l Part B: ~ 1.0 kg/l Mixed mortar: ~ 1.4 kg/l All Density values at +23°C.	DIN EN ISO 2811-1
<b>Solid content</b>	Resin: ~ 100% (by volume) / ~ 100% (by weight)	

## TECHNICAL INFORMATION

<b>Shore Hardness</b>	76 (7 days / +23°C)	DIN 53 505								
<b>Abrasion Resistance</b>	70 mg (CS 10/1000/1000) (8 days / +23°C)	DIN 53 109 (Taber Abrader Test)								
<b>Compressive Strength</b>	Resin: ~ 60 N/mm <sup>2</sup> (28 days / +23°C)	EN 196-1								
<b>Tensile Strength in Flexure</b>	Resin: ~ 30 N/mm <sup>2</sup> (28 days / +23°C)	EN 196-1								
<b>Tear Strength</b>	> 1.5 N/mm <sup>2</sup> (failure in concrete)	EN 4624								
<b>Chemical Resistance</b>	Resistant to many chemicals. Please ask for a detailed chemical resistance table.									
<b>Temperature Resistance</b>	<table border="1"> <thead> <tr> <th>Exposure*</th> <th>Dry heat</th> </tr> </thead> <tbody> <tr> <td>Permanent</td> <td>+50°C</td> </tr> <tr> <td>Short term max. 7 d</td> <td>+80°C</td> </tr> <tr> <td>Short term max. 12 h</td> <td>+100°C</td> </tr> </tbody> </table>	Exposure*	Dry heat	Permanent	+50°C	Short term max. 7 d	+80°C	Short term max. 12 h	+100°C	
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									

## SYSTEM INFORMATION

<b>System</b>	<p><u>Textured roller coating:</u> Primer*: 1-2 x Sikafloor-156/-161 (optional) Coating: 1 - 2 x Sikafloor-264 Thixo</p> <p><u>Textured roller coating with improved slip resistance:</u> Primer*: 1-2 x Sikafloor-156/-161 (optional) Coating: 1 x Sikafloor-264 Thixo quartz sand (0.1 - 0.5 mm)</p> <p>*Note: In cases of limited exposure and normal absorbent concrete substrates priming with Sikafloor-161 is not necessary.</p>
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## APPLICATION INFORMATION

<b>Mixing Ratio</b>	Part A : part B = 79 : 21 (by weight)	
<b>Consumption</b>	Primer	
	Product	Consumption
	1-2 x Sikafloor-156/-161	0.35 - 0.55 kg/m <sup>2</sup>
	Levelling (optional)	
Product	Consumption	
Sikafloor-156/-161 levelling mortar	Refer to PDS of Sikafloor-161	
Textured roller coating		
Product	Consumption	
1 - 2 x Sikafloor-264 Thixo	0.5 - 0.8 kg/m <sup>2</sup> per layer	
Textured roller coating with improved slip resistance		
Product	Consumption	
10 pbw Sikafloor-264 Thixo	0.5 - 0.8 kg/m <sup>2</sup>	
+ Extender T		
+ 1 pbw quartz sand (0.1 - 0.5 mm)	0.05 - 0.07 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 or wastage etc.		
<b>Ambient Air Temperature</b>	+10°C min. / +30°C max.	
<b>Relative Air Humidity</b>	80 % r.h. max.	
<b>Dew Point</b>	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.	
<b>Substrate Temperature</b>	+10°C min. / +30°C max.	
<b>Substrate Moisture Content</b>	< 4% pbw moisture content. Test method: Sika-Tramex meter, CM - measurement or Oven-dry-method. No rising moisture according to ASTM (Polyethylene-sheet).	
<b>Pot Life</b>	Temperature	Time
	+10°C	~ 50 minutes
	+20°C	~ 25 minutes
	+30°C	~ 15 minutes
Note: Times are approximate and will be effected by changing ambient conditions.		
<b>Curing Time</b>	Before applying Sikafloor-264 Thixo on Sikafloor-161 allow:	
	Substrate temperature	Minimum
	+10°C	24 hours
	+20°C	12 hours
	+30°C	8 hours
		Maximum
		3 days
		2 days
		1 day
		Maximum
		3 days
		2 days
		1 day

Times are approximate and will be affected by changing ambient condi-

tions particularly temperature and relative humidity.

## Applied Product Ready for Use

Note: Times are approximate and will be effected by changing ambient conditions.

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

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

#### Substrate quality:

Concrete substrates 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.

#### Substrate preparation:

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 blowholes 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.

The concrete or screed substrate has to be primed or levelled in order to achieve an even surface.

High spots must be removed by e.g. grinding.

All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum.

### MIXING

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. 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 entrapment.

Sikafloor-264 Thixo must be thoroughly mixed using a low speed stirrer (300 - 400 rpm) or other suitable equipment.

### APPLICATION

Prior to application, confirm substrate moisture content, r.h. and dew point. If > 4% pbw moisture content, Sikafloor EpoCem may be applied as a T.M.B. (temporary moisture barrier) system.

#### Levelling:

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

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

Sikafloor-264 Thixo is poured and spread evenly by means of a serrated trowel and then back-rolled cross-wise with a textured roller.

#### Seal coat:

Sikafloor-264 Thixo is poured and spread evenly by means of a squeegee and then back-rolled crosswise with a textured roller or 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

To maintain the appearance of the floor after application, Sikafloor-264 Thixo 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.

## IMPORTANT CONSIDERATIONS

Do not apply Sikafloor-264 Thixo on substrates in which rising moisture.

Do not blind the primer.

Freshly applied Sikafloor-264 Thixo should 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.

#### Tools

Recommended Supplier of Tools:

PPW-Polyplan-Werkzeuge GmbH, Phone: +49 40/5597260,

www.polyplan.com.

Serrated trowel for smooth wearing layer:

e.g. Large-Surface Scrapper No. 565, Toothed blades No. 25

Serrated trowel for textured wearing layer:

e.g. Trowel No. 999 or Adhesive Spreader No.777,

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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 or high ambient temperatures 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 Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## 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 the exact product data and uses.

## ECOLOGY, HEALTH AND SAFETY

### CE MARK

Please refer to Declaration of performance.

### HEALTH AND SAFETY INFORMATION

For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent Material Safety Data Sheet 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 (Productcategory IIA / j type **sb**) is 500 g/l (Limit 2010) for the ready to use product. The maximum content of Sikafloor-264 Thixo is < 500 g/l VOC for the ready to use product.

## 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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