

PRODUCT DATA SHEET

Sikafloor®-264

2-PART EPOXY ROLLER AND SEAL COAT

DESCRIPTION

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

USES

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

- Roller coat for concrete and cement screed with normal up to medium heavy wear e.g. storage and assembly halls, maintenance workshops, garages and loading ramps.
- Seal coat for broadcast systems.

CHARACTERISTICS / ADVANTAGES

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

PRODUCT INFORMATION

Chemical base	Epoxy	
Packaging	Part A	7.9 kg/can
	Part B	2.1 kg/can
	Part A+B	10 kg set
	Part A	15.8 kg/can
	Part B	4.2 kg/can
	Part A+B	20 kg set
Appearance / Colour	Resin - part A:	Coloured, liquid
	Hardener - part B	Transparent, liquid
5 standard colours: RAL 6001, RAL 6011, RAL 7032, RAL 7035, RAL 7042 Customer colours subject to minimum orders. Under direct sun light there may be some discolouration and colour variations; this has no influence on the function and performance of the coating.		
Shelf life	12 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 +18 °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 weight ~100 %

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: ~ 60 N/mm² (28 days / +23°C) (EN196-1)

Tensile Strength in Flexure Resin: ~ 30 N/mm² (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. 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.

SYSTEM INFORMATION

Systems

Roller Coating

Primer:	1 x Sikafloor®-264 or 1 x Sikafloor®-161 HC
Coating:	1-2 x Sikafloor®-264

Textured Roller Coating

Primer:	1 x Sikafloor®-264 or 1 x Sikafloor®-161 HC
Textured Roller Coating:	1-2 x Sikafloor®-264 + 2% Extender T

Textured Roller Coating with Improved Slip Resistance

Primer:	1 x Sikafloor®-264 or 1 x Sikafloor®-161 HC
Textured Roller Coating with Improved Slip Resistance:	1 x Sikafloor®-264 + Quartz sand (0.1–0.5 mm) + 2% Extender T

Broadcast System

Primer:	1 x Sikafloor®-161 HC
Base coat:	1 x Sikafloor®-263 SL HC + Quartz sand (0.1–0.3 mm) + 2% Extender T
Broadcasting:	Quartz sand (0.1–0.3 mm) broad- cast to excess
Seal coat:	1 x Sikafloor®-264

APPLICATION INFORMATION

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

Consumption

Coating System	Product	Consumption
Primer	Sikafloor®-161 HC or Sikafloor®-264	0.30–0.50 kg/m ²
Leveling (optional)	Sikafloor®-161 HC leveling mortar	Refer to PDS of Sikafloor®-161 HC
Roller coating	1-2 x Sikafloor®-264	0.25–0.3 kg/m ² /layer
Textured Roller Coating	1-2 x Sikafloor®-264 + 2% Extender T (pbw)	0.50–0.80 kg/m ²
Textured Roller Coating with Improved Slip Resistance	10 pbw Sikafloor®-264 + 1 pbw Quartz sand (0.1–0.5 mm) + 2% Extender T pbw	0.50–0.80 kg/m ²
Broadcast System	1 pbw Sikafloor®-263 SL HC + 1 pbw Quartz sand (0.1–0.3 mm) Broadcasting Sikafloor Filler-2 Seal coat Sikafloor®-264	2.0 kg/m ² 2.0 kg/m ² ~6.0 kg/m ² ~0.7 kg/m ²

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. / +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.
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®-161 HC 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 on Sikafloor®-263 SL HC 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.

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.
- If in doubt, apply a test area first.
- 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 substrate, filling of blowholes/voids and surface levelling can 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

Mixing time: 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 minimize air entrainment.

Mixing tools: Sikafloor®-264 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, Sikagard®-75 EpoCem® and/or Sikafloor®-81 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 HC leveling 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 TOOLS

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 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 CONSIDERATION

- 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.
- Avoid puddles on the surface with the primer.
- For areas with limited exposure and normally absorbent concrete substrates priming with Sikafloor®-161 HC is not necessary for roller or textured coating system.
- 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, Toothed blades No. 23

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 CO₂ and H₂O 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 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 declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

ECOLOGY, HEALTH AND SAFETY

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.

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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