

PRODUCT DATA SHEET

Sikafloor®-264 HC

TWO-COMPONENT EPOXY PRIMER AND FINISHING COAT SYSTEM.

DESCRIPTION

Sikafloor®-264 HC is a two components, coloured epoxy resin product with solvent-free, economic efficiency.

USES

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

Coating for concrete floors and load-bearing screeds from low to high importance such as warehouses, halls, houses, workshop, repair and maintenance area, garage, ramp, etc.
Coating for broadcast systems.

CHARACTERISTICS / ADVANTAGES

- High chemical and mechanical resistance.
- Easy application.
- Savings.
- Waterproof
- No solvents.
- Glossy finished surface.
- Slip resistance surface.
- Dust-proof sealer.

PRODUCT INFORMATION

Chemical base	Epoxy
Packaging	<p>Set 1:</p> <p>Component A : 7.9 kgs/pail</p> <p>Component B : 2.1 kgs/pail</p> <p>Component A + B 10 kgs/pail</p> <p>Set 2:</p> <p>Component A : 15.8 kgs/pail</p> <p>Component B : 4.2 kgs/pail</p> <p>Component A + B 20 kgs/pail</p>
Shelf life	24 months from the 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.
Appearance / Colour	<p>Resin - part A: coloured/ liquid.</p> <p>Hardener - part B: transparent/ liquid.</p> <p>Colors: RAL 6010, RAL 6011, RAL 6032, RAL 1013, RAL 1014, RAL 7032, RAL 7035, RAL 7038, RAL 9003, RAL 9016, RAL 9010, RAL 5015.</p> <p>Special colors subject to minimum order quantity.</p> <p>Under direct sunlight, colors may change or fade but this does not affect</p>

the use and performance of the coating.

Density	Component A	~1.64 kg/L	(DIN EN ISO 2811-1) at +23 °C
	Component B	~1.00 kg/L	
	Mixed resin	~1.40 kg/L	
	All values are measured at 23°C.		

Solid content by weight ~100 %

Solid content by volume ~100 %

TECHNICAL INFORMATION

Shore D Hardness ~74 (7 days / +23°C) (ASTM D2240)

Abrasion Resistance 60 mg (CS 10/1000/1000) (8 days / +23°C) (ASTM D4060- 14)

Compressive Strength ~50 N/mm² (EN196-1)

Tensile Strength in Flexure ~20 N/mm² (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.).

CHEMICAL RESISTANCE Resistance to many chemicals. Contact Sika Technical Service Department for specific information.

SYSTEM INFORMATION

Systems	Coating:	
	Primer	1 x Sikafloor®-161 HC
	Top Coat	2 x Sikafloor®-264 HC
	Broadcast system ~4 mm:	
	Primer:	1x Sikafloor®-161 HC
	Screed:	1 x Sikafloor®-264 HC + quartz sand (0.1 - 0.3 mm)
Broadcasting:	Quartz sand (0.4 - 0.7 mm) broadcast to excess	
Top Coat:	1 x Sikafloor®-264 HC	

APPLICATION INFORMATION

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

Consumption	Coating System	Product	Consumption
	Primer	Sikafloor®-161 HC	0.35-0.55 kg/m ² for each layer
	Screed (optional)	Self-leveling mortar Sikafloor®-161 HC	Refer to PDS of Sikafloor®-161 HC
	Top Coat	2 x Sikafloor®-264 HC	0.25 - 0.3 kg/m ² for each layer

Coating System	Product	Consumption
Broadcast system ~ 4mm	Sikafloor®-264 HC mixed with Quartz sand (0.1–0.3 mm) with ra- tio 1:1 (by weigh) + quartz sand (0.4–0.7 mm) sprinkle with roughness coating + coating Sikafloor®-264 HC	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. 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 min		
	+20 °C	~25 min		
	+30 °C	~15 min		
Curing time	Before applying Sikafloor®-264 HC on Sikafloor®-161 HC:			
	Substrate temperature	Minimum	Maximum	
	+10 °C	24 h	3 d	
	+20 °C	12 h	2 d	
	+30 °C	8 h	1 d	
	Before applying Sikafloor®-264 HC on Sikafloor®-264 HC:			
	Substrate temperature	Minimum	Maximum	
	+10 °C	30 h	3 d	
	+20 °C	24 h	2 d	
	+30 °C	16 h	1 d	
	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 h	~6 d	~10 d
	+20 °C	~24 h	~4 d	~7 d
	+30 °C	~18 h	~2 d	~5 d
	Note: Times are approximate and will be affected by changing ambient conditions.			

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.

IMPORTANT CONSIDERATION

- Do not apply Sikafloor®-264 HC on substrates with rising moisture.
- Do not change the primer.
- Freshly applied Sikafloor®-264 HC must be protected from damp, condensation and water for at least 24 hours.

- Avoid blistering on primer surface.
- For areas with limited exposure and normally absorbent concrete substrates priming with Sikafloor®-161 HC is not necessary for roller or textured coating systems.
- For roller / textured coatings: Do not apply coating layer on uneven substrates as well as inclusions of dirt. 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 uniform colour matching, ensure the Sikafloor®-264 HC 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.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

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.
- Need to test on small area before applying.
- 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 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

Prior to mixing stir part A mechanically. When all of

part B has been added to part A, continuously mix 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 consistent mix. Over mixing must be avoided to minimize air entrainment.

MIXING TOOLS

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

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.

Levelling

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

Coating

Sikafloor®-264 HC 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 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 HC 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

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.

Sika Limited (Vietnam)

Nhon Trach 1 Industrial Zone,
Nhon Trach Dist., Dong Nai Province,
Vietnam

Tel: (84-251) 3560 700

Fax: (84-251) 3560 699

sikavietnam@vn.sika.com



Product Data Sheet

Sikafloor®-264 HC

July 2024, Version 03.03

020811020020000164

Sikafloor-264HC-en-VN-(07-2024)-3-3.pdf

