

PRODUCT DATA SHEET

Sikafloor®-378

EPOXY BASED TOUGH-FLEXIBLE COLOURED FLOORING SEAL COAT

DESCRIPTION

Sikafloor®-378 is a 2-part, epoxy based, coloured, flooring seal coat with improved resistance against amine blushing under critical weather conditions. It provides a hard wearing, abrasion and chemical resistant gloss finish over aggregate broadcast Sikafloor® epoxy or polyurethane resin floors. Internal use.

USES

Sikafloor®-378 may only be used by experienced professionals.

- Seal coat for Sikafloor® industrial flooring broadcast systems
- Top coat on Sikafloor® flooring systems
- Suitable for slip resistant broadcast systems on car park decks, ramps and warehouse floors

CHARACTERISTICS / ADVANTAGES

- Improved resistance against amine blushing
- Good abrasion resistance
- Good mechanical and chemical resistance
- Good opacity
- Gloss finish
- Slip resistant surface to suit clients requirements

PRODUCT INFORMATION

Chemical Base	Epoxy	
Packaging	Part A	24,6 kg container
	Part B	5,4 kg container
	Part A+B	30 kg ready to mix unit
Appearance / Colour	Final floor appearance: Gloss finish	
	Resin - Part A	coloured, liquid
	Hardener - Part B	transparent, liquid

Available in various colour shades

ENVIRONMENTAL INFORMATION

- Conformity with LEED v4 MRc 2 (Option 1): Building Product Disclosure and Optimization – Environmental Product Declarations
- Conformity with LEED v4 MRc 4 (Option 2): Building Product Disclosure and Optimization - Material Ingredients
- Conformity with LEED v2009 IEQc 4.2: Low-Emitting Materials - Paints and Coatings
- IBU Environmental Product Declaration (EPD)

APPROVALS / STANDARDS

- CE Marking and Declaration of Performance to EN 1504-2 - Surface protection product for concrete - Coating
- CE Marking and Declaration of Performance to EN 13813 - Resin screed material for internal use in buildings
- Grip test, Sikafloor®-161 / -350 N / -378, kiwa, Report No. P 9477-2
- Coating system DAFStb Test Class OS 11, Sikafloor® MultiFlex PB-55, kiwa, Test report No. P 10777-1
- Coating system DAFStb Test Class OS 11, Sikafloor® MultiFlex PB-56, kiwa, Test report No. P 10777-2
- Sliding test DIN 51131, Sikafloor®-378 / -81 EpoCem, Roxeler, Certificate No. 020044-17-8a

Standard colours: ~RAL 7023, 7030, 7032, 7035, 7037, 7038, 7040, 7042, 9002, 9010

Other colours on request.

Applied colours selected from colour charts will be approximate.

For colour matching: Apply colour sample and confirm selected colour under real lighting conditions.

When product is exposed to direct sunlight, there may be some discolouration and colour variation, this has no influence on the function and performance of the coating.

Shelf Life	24 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 +5 °C and +30 °C. Always refer to packaging.									
Density	<table><tr><td>Part A</td><td>~1,64 kg/l</td><td>(DIN EN ISO 2811-1)</td></tr><tr><td>Part B</td><td>~1,00 kg/l</td><td></td></tr><tr><td>Resin mixed</td><td>~1,40 kg/l</td><td></td></tr></table> All Density values at +23 °C.	Part A	~1,64 kg/l	(DIN EN ISO 2811-1)	Part B	~1,00 kg/l		Resin mixed	~1,40 kg/l	
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Part B	~1,00 kg/l									
Resin mixed	~1,40 kg/l									
Solid content by weight	~99 %									
Solid content by volume	~99 %									
Product Declaration	EN 1504-2: Surface protection product for concrete - Coating. EN 13813: Resin screed material for internal use in buildings									

TECHNICAL INFORMATION

Shore D Hardness	~75 (7 days / +23 °C)	(DIN 53 505)							
Abrasion Resistance	24 mg (CS 10/1000/1000) (8 days / +23 °C)	(DIN 53 109)							
Compressive Strength	~65 N/mm ² (28 days / +23 °C)	(EN 196-1)							
Tensile Adhesion Strength	> 1,5 N/mm ² (failure in concrete)	(ISO 4624)							
Chemical Resistance	Resistant to many chemicals. Contact Sika Technical Services for additional information								
Thermal Resistance	<table><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 days</td><td>+80 °C</td></tr><tr><td>Short-term max. 12 hours</td><td>+100 °C</td></tr></tbody></table> Short-term moist/wet heat* up to +60 °C where exposure is only occasional (steam cleaning etc.). <small>*No simultaneous chemical and mechanical exposure and only in combination with Sikafloor® systems as a broadcast system with approx. 3 - 4 mm thickness.</small>	Exposure*	Dry heat	Permanent	+50 °C	Short-term max. 7 days	+80 °C	Short-term max. 12 hours	+100 °C
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Permanent	+50 °C								
Short-term max. 7 days	+80 °C								
Short-term max. 12 hours	+100 °C								

SYSTEM INFORMATION

Systems	Refer to the following System Data Sheets: <ul style="list-style-type: none">▪ Sikafloor® Multiflex PB-21▪ Sikafloor® Multiflex PB-51▪ Sikafloor® Multiflex PB-52▪ Sikafloor® MultiflexPB-53▪ Sikafloor® Multiflex PB-54
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APPLICATION INFORMATION

Mixing Ratio	Part A : Part B = 82 : 18 (by weight)
Consumption	~0,7–0,9 kg/m ² applied as a roller coating 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® Multiflex PB-21, Sikafloor® Multiflex PB-26, Sikafloor® Multiflex PB-52, Sikafloor® Multiflex PB-53 and Sikafloor® Multiflex PB-54.

Ambient Air Temperature	+10 °C min. / +30 °C max.		
Relative Air Humidity	80 % max.		
Dew Point	Beware of condensation. The substrate and uncured applied floor material must be at least +3 °C above dew point to reduce the risk of condensation or blooming on the floor finish. Low temperatures and high humidity conditions increase the probability of blooming.		
Substrate Temperature	+10 °C min. / +30 °C max.		
Substrate Moisture Content	≤ 4 % parts by weight 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®-378 on Sikafloor®-378 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
	Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.		

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

Cementitious substrates (concrete / screed) must be structurally sound and of sufficient compressive strength (minimum 25 N/mm²) with a minimum tensile strength of 1,5 N/mm².

Substrates must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings, laitance, surface treatments and loose friable material.

Cementitious substrates must be prepared mechanically using suitable abrasive blast cleaning or planing / scarifying equipment to remove cement laitance and achieve an open textured gripping surface profile suitable for the product thickness.

High spots can be removed by grinding.

Weak cementitious substrates must be removed and surface defects such as blow holes and voids must be fully exposed.

Repairs to the substrate, filling of cracks, blowholes /

voids and surface levelling must be carried out using appropriate products from the Sikafloor®, Sikadur® and Sikagard® range of materials. Products must be cured before applying Sikafloor®-378.

All dust, loose and friable material must be completely removed from all surfaces before application of the product and associated system products, preferably by vacuum extraction equipment.

MIXING

Prior to mixing all parts, mix separately Part A (resin) using a low speed single paddle electric stirrer (300–400 rpm) other suitable equipment. Mix liquid and all the coloured pigment until a uniform colour has been achieved. Add Part B (hardener) to Part A and mix Part A + B continuously for 3,0 minutes until a uniformly coloured mix has been achieved then, if required, gradually add the appropriate amount of Sika® Extender T. Mix for a further 2,0 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. Excessive mixing must be avoided to minimise air entrainment. During the final mixing stage, scrape down the sides and bottom of the mixing container with a flat or straight edge trowel at least once to ensure complete mixing. Mix full units only. Mixing time for A + B + Sika® Extender T (if required) = 5,0 minutes.

APPLICATION

Strictly follow installation procedures as defined in method statements, application manuals and working instructions which must always be adjusted to the actual site conditions.

Prior to application, confirm substrate moisture content, relative air humidity, dew point, substrate, air and product temperatures.

Seal coat

After waiting the appropriate overcoating time / curing, pour the mixed material onto the slip resistant broadcast layer and spread evenly using a squeegee at the required consumption rate to completely encapsulate the sand. Then using a short-piled roller, back roller in two directions at right angles to each other. A seamless finish can be achieved if a 'wet' edge is maintained during application.

CLEANING OF TOOLS

Clean all tools and application equipment with Thinner C immediately after use. Hardened material can only be removed mechanically.

MAINTENANCE

CLEANING

To maintain the appearance of the floor after application, Sikafloor®-378 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. Refer to Sika Method Statement: Sikafloor®-Cleaning Regime.

FURTHER DOCUMENTS

- Sika® Method Statement: Evaluation and Preparation of Surfaces for Flooring Systems
- Sika® Method Statement: Mixing & Application of Flooring Systems
- Sika® Method Statement: Sikafloor®-Cleaning Regime

LIMITATIONS

- Apply Sikafloor®-378 only as a seal coat on fully broadcast systems.
- After application, product must be protected from damp, condensation and direct water contact for at least 24 hours.
- For areas with limited exposure and normal absorbent concrete substrates. Priming with Sikafloor®-156/-160/-161 is not necessary for roller or textured

coating systems.

- The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective surface cracking.
- If product is used for roller / textured sealer coats. Uneven and / or dirty substrates must not be considered for thin coating application. All areas must always be prepared and cleaned thoroughly prior to application.
- For exact colour matching, ensure the Sikafloor®-378 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 indentations in the resin.
- If temporary 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.
- Seal / Top coat consumption will vary depending on sand granulometry.

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 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.

ECOLOGY HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) 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/CE, the maximum allowed content of VOC (product category IIA / j type sb) is 500 g/l (Limits 2010) for the ready to use product.

The maximum content of Sikafloor®-378 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. 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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Product Data Sheet

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