

PRODUCT DATA SHEET

Sikafloor® Carpark

3-part epoxy flooring for car park

DESCRIPTION

Sikafloor®-Carpark is a three part coloured binder based on epoxy resin. Due to its low viscosity, self-smoothing coatings as well as textured coatings, and seal coats mortar screeds and broadcast screeds can be produced.

USES

Sikafloor® Carpark may only be used by experienced professionals.

- Roller, textured coat and thin self-smoothing coating for concrete and cement screeds with normal up to medium heavy wear in car park
- Seal coat for broadcast systems in multi-storey and underground car parks.

CHARACTERISTICS / ADVANTAGES

- Good chemical and mechanical resistance
- Economical
- Solvent-free
- Slip resistant surface possible

APPROVALS / STANDARDS

GB/T 22374-2018

PRODUCT INFORMATION

Packaging	Part A	20.54 kg/Pail
	Part B	5.46 kg/pail
	Part C	1.50 kg/pail
	Part A+B+C	27.50 kg/set
Shelf Life	24 months from date of production	
Storage Conditions	Stored properly in original, unopened and undamaged sealed packaging in dry conditions.	
Appearance / Colour	Part A	Light brown, liquid
	Part B	Yellowish, liquid
	Part C	Colored, paste
<p>Ral colours, please inquire Sika. Under direct sun radiation there may be some discoloration and color deviation, such as yellow and orange; this has no influence to the function and performance of the coating.</p>		

Density	Part A	~ 1.50 kg/l
	Part B	~ 1.00 kg/l
	Part C	~ 1.20 kg/l
	Mixed resin	~ 1.40 kg/l

All Density values at +23 °C.

Volatile Organic Compound (VOC) Content	< 60 g/l	GB/T 22374-2018
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TECHNICAL INFORMATION

Shore D Hardness	~ 75	GB/T 22374-2018
Abrasion Resistance	< 0.03 g	GB/T 22374-2018
Resistance to Impact	Heavy duty	GB/T 22374-2018
Compressive Strength	> 45 MPa	GB/T 22374-2018
Coefficient of Friction	> 0.5(Coefficient of dry friction)	GB/T 22374-2018
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.		
Chemical Resistance	Resistant to many chemicals. Please ask for a detailed chemical resistance table.	

SYSTEM INFORMATION

Systems	Roller coating:	
	Primer:	1 x Sikafloor®-Carpark (A+B)
	Coating:	2 x Sikafloor®-Carpark (A+B+C)
	Textured coating:	
	Primer:	1 x Sikafloor®-Carpark (A+B)
	1st layer:	1 x Sikafloor®-Carpark (A+B+C)
	2nd layer:	1 x Sikafloor®-Carpark (A+B+C) mixed with Extender T
	Self-smoothing system 1.0 mm:	
	Primer:	1 x Sikafloor®-Carpark (A+B)
	Wearing course:	1 x Sikafloor®-Carpark (A+B+C) + Sikadur® 505 S
	Broadcast system approx. 3 mm:	
	Primer:	1 x Sikafloor®-Carpark (A+B)
	Base coat:	1 x Sikafloor®-Carpark(A+B+C) + Sikadur® 505 S
	Broadcasting:	Quartz sand (0.4–0.7 mm) broadcast to excess
	Seal coat:	1 x Sikafloor®-Carpark (A+B+C)
Broadcast system (Sikafloor® AGG TOP):		
Primer:	1 x Sikafloor®-Carpark (A+B)	
Base coat:	1 x Sikafloor®-Carpark (A+B+C) + Quartz sand	
Broadcasting:	Sikafloor®- 600 Aggregate Metallic	

APPLICATION INFORMATION

Mixing Ratio	A : B : C = 13.70 : 3.64 : 1
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Consumption

Coating System	Product	Consumption
Primer	Sikafloor®-Carpark(A+B)	0.30–0.50 kg/m ²
Roller coating	2 x Sikafloor®-Carpark(A+B+C)	0.25–0.30 kg/m ² for each layer
Textured coating (Film thickness ~ 0.5 mm)	1st layer Sikafloor®-Carpark(A+B)	~ 0.25 kg/m ²
	2nd layer Sikafloor®-Carpark(A+B+C)	~ 0.30 kg/m ²
	+ Extender T	1.0–2 % (by weight)
Self-smoothing wearing layer (Film thickness 1.0-2.0 mm)	1 pbw Sikafloor®-Carpark(A+B+C) 0.2-0.4 pbw quartz sand (Sikadur®-505 S)	~ 1.20 kg/m ² /mm mixture (1.0kg/m ² binder + 0.2 kg/m ² quartzsand) applied with a fine tooth trowel
Broadcast system (Film thickness ~ 3.0 mm)	1 pbw Sikafloor®-Carpark(A+B+C)	~ 1.2 kg/m ²
	0.65 pbw quartz sand (Sikadur®-505 S) + broadcasting quartz sand 0.4-0.7 mm+ Seal coat Sikafloor®-Carpark(A+B+C)	~ 0.7 kg/m ² ~ 3.0 kg/m ² ~ 0.7 kg/m ²
	Primer: Sikafloor®-Carpark(A+B)	~0.5-0.7 kg/m ²
Broadcast System (Sikafloor® AGG TOP)	1 pbw Sikafloor®-Carpark(A+B+C)	~ 2-2.5kg/m ²
	0.65 pbw quartz sand	~ 1.3-1.7kg/m ²
	Broadcasting - Sikafloor®-600 Aggregate Metallic	~ 7–9 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.

Product Temperature	+10°C min. / +30°C max	
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 or CM - measurement. No rising moisture according to ASTM (Polyethylene-sheet).	
Pot Life	Temperature	Time
	+10 °C	~ 50min
	+20 °C	~ 25min
	+30 °C	~ 15min

Waiting Time / Overcoating	Before applying solvent free products on Sikafloor®-Carpark allow:		
	Substrate temperature	Minimum	Maximum
	+10°C	24 hours	4 days
	+20°C	12 hours	2 days
	+30°C	8 hours	24 hours

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	~ 24 hours	~ 6 days	~ 10 days
+20°C	~ 12 hours	~ 4 days	~ 7 days
+30°C	~ 8 hours	~ 2 days	~ 5 days

Note: Times are approximate and will be effected 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.

LIMITATIONS

- Do not apply Sikafloor®-Carpark on substrates with rising moisture.
- Freshly applied Sikafloor®-Carpark should be protected from damp, condensation and water for at least 24 hours.
- Avoid puddles on the surface with the primer.
- For external applications, apply on a falling temperature. If applied during rising temperatures “pin holing” may occur from rising air.
- Construction joints require pre-treatment. Treat as follows:

Static Cracks: prefill and level with SikaDur® or Sikafloor® epoxy resin

Dynamic cracks: to be assessed and if necessary apply a stripe coat of elastomeric material or design as a movement joint

- The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.
- Under certain conditions, underfloor heating or high ambient temperatures combined with high point loading, may lead to imprints in the resin.

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 Material Safety Data Sheet (MSDS) containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

EQUIPMENT

- Sikafloor®-Carpark must be thoroughly mixed using a low speed electric stirrer (300–400 rpm) or other suitable equipment.
- For the preparation of mortars use a forced action mixer of rotating pan, paddle or trough type. Free fall mixers should not be used.

SUBSTRATE QUALITY / PRE-TREATMENT

- Concrete substrates 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 sur-

face 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 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 C has been added to part A, mix continuously for 2 minutes until a uniform mix has been achieved.
- When parts A and C have been mixed, add Part B and mix for a further 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 entrainment.

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.
- Thin Coating:
- Pour the material on the substrate, and use trowel to spread the material,
- Sikafloor®-Carpark as coating, can be applied by short-piled roller (crosswise).
- Coating layer, textured:
- Sikafloor®-Carpark is applied with a medium piled roller and then back-rolled (crosswise) with a textured 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®-300 Carpark must have all spillages removed immediately and 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 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.

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.

SIKA HONGKONG LTD.

Rm.1507-12, Blk A, New Trade Plaza,
6 On Ping Street, Shatin, N.T., H.K.
Phone: +852 26868108
Fax: +852 26453671
Mail: marketing@hk.sika.com
Website: www.sika.com.hk



Product Data Sheet

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