BUILDING TRUST

PRODUCT DATA SHEET

Sikafloor®-374 CP SL

THREE-PART COST PERFORMANCE COLORED EPOXY RESIN SYSTEM

DESCRIPTION

Sikafloor®-374 CP SL is a three-part, multi-purpose, high build, coloured epoxy resin.

USES

Sikafloor®-374 CP SL may only be used by experienced professionals.

Thin self-smoothing coating and broadcast coating for concrete and cement screeds with normal up to medium heavy traffic area. Such as car park, warehouse, hallways, maintenance workshops, etc.

CHARACTERISTICS / ADVANTAGES

- Good mechanical resistance
- Easy to apply
- High performance and cost effective
- Less Solvent
- Durable, impermeable and seamless

PRODUCT INFORMATION

Composition	Epoxy		
Packaging	Part A: Part B: Part C: Part A + B + C:	7.6 kg can 4.1 kg can 10.3 kg plastic bags 22 kg set	
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 +18 °C and +30 °C.		
Appearance and colour	Resin – Part A: Hardener - Part B: Filler - Part C: Available in a number of colour shades. Please consult our Technical Sales Engineer for further details. Under direct UV exposure (sun, lamp, skylight, etc.) there may be some discolouration and colour deviation, this has no influence on the function and performance of the coating.	Standard color, liquid Transparent, liquid Powder	
Density	Part A: Part B: Part C: Mixed resin part A + B + C: All Density values at +23 °C.	~1.05 kg/L ~1.03 kg/L ~2.65 kg/L ~1.49 kg/L	(DIN EN ISO 2811-1)

TECHNICAL INFORMATION

Shore D Hardness	7 days	~60 - 70 (at +27 °C)	(DIN EN ISO 868)
Abrasion resistance	7 days	~45 mg (at +27 °C) (CS 10/ 1000/ 1000)	(ASTM D 4060) Taber Abrader Test
Compressive strength	28 days	~30 N/mm² (at +27 °C)	(ASTM C579)
Tensile adhesion strength	28 days	~1.5 N/mm² (at +27 °C) Concrete failure	(ASTM D7234)
Temperature resistance	**Exposure** Permanent	**Dry heat** +40 °C	

SYSTEM INFORMATION

Systems

Self-smoothing 0.5 mm and 0.8 - 1.0 mm System

Layer	Product
Primer	1 x Sikafloor®-374 CP SL
Base coat	1 x Sikafloor®-374 CP SL
Wearing course	1 x Sikafloor®-374 CP SL

Broadcast ~1.5 mm System

Layer	Product
Primer	1 x Sikafloor®-374 CP SL
Base coat	1 x Sikafloor®-374 CP SL
Broadcast	Sikadur®-505/501
Sealer Coat	1 x Sikafloor®-374 CP SL
Top Coat	1 x Sikafloor®-374 CP SL

APPLICATION INFORMATION

Mixing ratio

Part A : Part B : Part C = 7.6 : 4.1 : 10.3 (by weight)

Consumption

Self-Smoothing 0.5 mm and 0.8 - 1.0 mm System

Layer	Product	Consumption
Primer	Sikafloor®-374 CP SL	~0.15 kg/m²
Base Coat	Sikafloor®-374 CP SL	~0.15 - 0.20 kg/m²
Self-smoothing wearing layer (Film thickness 0.5 mm)	Sikafloor®-374 CP SL	~0.75 kg/m² minimum
Self-smoothing wearing layer (Film thickness 0.8-1.0 mm)	Sikafloor®-374 CP SL	~0.95 - 1.3 kg/m²

Broadcast ~1.5 mm System

Layer	Product	Consumption
Primer	Sikafloor®-374 CP SL	~0.15 kg/m²
Base Coat	Sikafloor®-374 CP SL	~0.35 - 0.4 kg/m²
Broadcast	Sikadur®-505/501	~2 kg/m²
Sealer Coat	Sikafloor®-374 CP SL	~0.35 kg/m²
Top Coat	Sikafloor®-374 CP SL	~0.25 - 0.35 kg/m²

These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level and wastage etc. As primers Sikafloor®-374 CP SL to excess might be used when apply on porous substrates.

Ambient air temperature

+10 °C min. / +30 °C max.

Relative air humidity

80 % r.h. max.

Dew point	Beware of condensation! The substrate must be at least 3 °C above the Dew Point to reduce the risk of condensation, which may lead to adhesion failure or “blushing” on the floor finish. Be aware that the substrate temperature may be lower than the ambient temperature. 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	~100 min
+20 °C	~90 min
+30 °C	~20 min

Waiting time to overcoating

Before applying coloured Sikafloor®-374 CP SL on Sikafloor®-374 CP SL allow:

Substrate temperature	Minimum	Maximum
+10 °C	24 h	3 d
+20 °C	12 h	2 d
+30 °C	8 h	1 d

Note : 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 Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

IMPORTANT CONSIDERATIONS

- Application of Sikafloor®-374 CP SL should be applied at evening until midnight to minimize discolouring.
- Freshly applied Sikafloor®-374 CP SL must be protected from damp, condensation and water for at least 24 hours.
- For exact color matching, ensure the Sikafloor®-374 CP SL in each area is applied from the same control batch numbers.
- Do not apply Sikafloor®-374 CP SL on substrates in which significant vapour pressure may occur.
- Do not apply while ambient and substrate temperatures are rising, as pinholes may occur. Ensure there is no vapor drive at the time of application. Refer to ASTM D4263, may be used for a visual indication of vapor drive.
- Do not blind the primer.
- Avoid puddles on the surface with the primer.
- Material Temperature: Precondition material for at least 24 hours between +18 °C to +30 °C.
- Mixing and Application attempted at Material, Ambient and/or Substrate Temperature conditions less than 18 °C will result in a decrease in product workability and slower cure rates.
- Mixing: Do not hand mix Sikafloor materials. Mechanically mix only.
- Do not thin this product. Addition of thinners (e.g. water, solvent, etc.) will slow cure and reduce ultimate properties of this product. Use of thinners will void any applicable Sika Life Expectancy.
- Improper mixing procedure or incorrect mixing ratio may result in moisture sensitivity, whitening, low cure, soft spots, and other defects.
- Application: If used as a primer apply material to the prepared substrate using a squeegee or flat trowel and back roll to provide uniform coverage. Ensure that the substrate is pore-free and pinhole free and provides uniform and complete coverage over the entire substrate. If necessary, apply an additional coat to ensure the substrate is pore-free and pinhole-free and provides uniform and complete coverage over the entire substrate.
- The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.
- If heating is required do not use gas, oil, paraffin or other fossil fuel heaters, these produce large quantities of both CO_2 and H_2O water vapour, which may adversely affect the finish. For heating use only electric powered warm air blower systems.
- 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

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

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 concrete substrate must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc.

SUBSTRATE PREPARATION

Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying or diamond grinder 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 up 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.
If in doubt, apply a test area first.

MIXING

Prior to mixing, stir part A mechanically using low speed (100 – 200 rpm) for 30 seconds.
Use another hand mixer with low to medium speed (300-400 rpm) to mix the part A with part C and B.
Add slowly part C into part A, mix continuously for 1.5 minutes until uniform mix has been achieved.
Add part B into mixed part A+C then mix continuously for 2 minutes until a uniform mix has been achieved.
Total mixing time is 3.5 minutes.
As an option to ensure thorough mixing has been achieved, 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®-374 CP SL must be mechanically mixed using an electric power stirrer (100 – 200 rpm) and (300 - 400rpm) or other suitable equipment.

APPLICATION

Prior to application, confirm substrate moisture content, r.h. and dew point.
Moisture content of concrete substrate must be ≤ 4 % as measured with a Sika Tramex or Tramex® CME/CMExpert type concrete moisture meter on mechanically prepared surface according to this product data sheet.
Do not apply to concrete substrate with moisture levels > 4 %. If moisture content of concrete substrate is > 4 % as measured with Tramex® CME/CMExpert type concrete moisture meter, use Sikafloor® 81 EpoCem® ID may be applied as a T.M.B. (temporary moisture barrier) system.

Thin self-smoothing layer:

Sikafloor®-374 CP SL is applied with a fine serrated trowel, Roll immediately in two directions with a short mohair roller (if needed for 500 microns) and spiked roller (must) to ensure even thickness and to remove entrapped air.

Broadcast layer:

Sikafloor®-374 CP SL is applied with a fine serrated trowel, then broadcast Sikadur®-505/501 evenly and wait until harden. Before apply next layer of Sikafloor®-374 CP SL, the unbonded of Sikadur®-505/501 have to be cleaned.

CLEANING OF EQUIPMENT

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

MAINTENANCE

CLEANING

To maintain the appearance of the floor after application, Sikafloor®-374 CP SL 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

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 exact product data and uses.

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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