

## PRODUCT DATA SHEET

## Sikafloor®-374 SL Decor ID

Cost Performance Colored Epoxy Resin Self Smoothing Decorative Screed

## DESCRIPTION

Sikafloor®-374 SL Decor ID system is a self-smoothing epoxy based 1.8 - 2 mm thick screed. It is composed of Sikafloor®-374 SL Decor ID high build colored epoxy resin with selected quartz sand and colored special Sikafloor® Décor Granules giving an endless combination of decorative finishes.

## USES

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

For the production of decorative self-smoothing floors on concrete and cement screeds with normal up to medium heavy wear e.g. laboratories, pharmaceutical industry, canteens, offices, shops, and storage and assembly halls, etc.

## FEATURES

- Decorative with endless finish combination achievable
- Good mechanical resistance
- Easy application
- High performance and cost effective
- Less solvent
- Durable, impermeable and seamless
- Semi Gloss

## PRODUCT INFORMATION

Composition	Epoxy	
Packaging	Part A :	3.46 kg can
	Part B :	1.86 kg can
	Part C* :	6.68 kg plastic bags
	Part D :	1.0 kg plastic bag
	Part A+B+C+D :	13 kg set
Note : C* = 0.02 kg of Sika® Extender T included in component C		
Appearance and colour	Resin - Part A :	Standard Color, Liquid
	Hardener - Part B :	Transparent, Liquid
	Filler - Part C :	Powder
	Filler Decorative - Part D :	Powder, Black; inert fillers
Sikafloor®-374 SL Decor ID is available in 3 Standard colors: light grey 7035, grey 7032, and blue 5012. Please consult our Technical Sales Engineer for another color variant and further details. Under direct UV exposure (sun, lamp, skylight, etc.) there may be some discoloration and color deviation, 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 +18 °C and +30 °C.

## TECHNICAL INFORMATION

Shore D Hardness	7 days	~60 (at +27 °C)	(DIN EN ISO 868)
Abrasion resistance	7 days	~70 mg (at +27 °C) (CS 10/ 1000/ 1000)	(ASTM D 4060) Taber Abrader Test
Compressive strength	28 days	~25 N/mm <sup>2</sup> (at +27 °C)	(ASTM C579)
Tensile adhesion strength	28 days	~1.5 N/mm <sup>2</sup> (at +27 °C) Concrete failure	(ASTM D7234)
Temperature resistance	Exposure Permanent	Dry heat +40 °C	

## APPLICATION INFORMATION

Mixing ratio	Part A : Part B : Part C : Part D = 3.46 : 1.86 : 6.68 (Added 0.02 kg of Sika® Extender T included in this part) : 1 (by weight)														
Consumption	<div>Self-Smoothing ~1.8 - 2.0 mm System</div> <table><tr><th>Layer</th><th>Product</th><th>Consumption</th></tr><tr><td>Primer</td><td>Sikafloor®-374 CP SL</td><td>~0.15 - 0.20 kg/m²</td></tr><tr><td>Base Coat</td><td>Sikafloor®-374 CP SL</td><td>~0.10 - 0.15 kg/m²</td></tr><tr><td>Self-smoothing wearing layer</td><td>Sikafloor®-374 SL Decor ID</td><td>~3.0 kg/m²</td></tr></table> <p>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.</p>			Layer	Product	Consumption	Primer	Sikafloor®-374 CP SL	~0.15 - 0.20 kg/m²	Base Coat	Sikafloor®-374 CP SL	~0.10 - 0.15 kg/m²	Self-smoothing wearing layer	Sikafloor®-374 SL Decor ID	~3.0 kg/m²
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Base Coat	Sikafloor®-374 CP SL	~0.10 - 0.15 kg/m²													
Self-smoothing wearing layer	Sikafloor®-374 SL Decor ID	~3.0 kg/m²													
Ambient air temperature	+10 °C min. / +30 °C max.														
Relative air humidity	80 % r.h. max.														
Dew point	<p>Beware of condensation!</p> <p>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.</p> <p>Note: Low temperatures and high humidity conditions increase the probability of blooming.</p>														
Substrate temperature	+10 °C min. / +30 °C max.														
Substrate moisture content	<p>&lt; 4 % pbw moisture content.</p> <p>Test method: Sika®-Tramex meter, CM-measurement or Oven-dry-method. No rising moisture according to ASTM (Polyethylene-sheet).</p>														
Pot Life	<div>Temperature</div> <div>+20 °C</div> <div>+30 °C</div>	<div>Time</div> <div>~25 min</div> <div>~15 min</div>													
Waiting time to overcoating	<p>Before applying coloured Sikafloor®-374 SL Decor ID on Sikafloor®-374 CP SL allow:</p> <table><tr><th>Substrate temperature</th><th>Minimum</th><th>Maximum</th></tr><tr><td>+10 °C</td><td>24 h</td><td>3 d</td></tr><tr><td>+20 °C</td><td>12 h</td><td>2 d</td></tr><tr><td>+30 °C</td><td>8 h</td><td>1 d</td></tr></table>			Substrate temperature	Minimum	Maximum	+10 °C	24 h	3 d	+20 °C	12 h	2 d	+30 °C	8 h	1 d
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Note : Times are approximate and will be affected by changing ambient conditions particularly temperat-

**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.

**SYSTEM INFORMATION****Systems****Self-smoothing ~1.8 - 2.0 mm System**

Layer	Product
Primer	1 x Sikafloor®-374 CP SL
Base coat	1 x Sikafloor®-374 CP SL
Self-smoothing Wearing course	1 x Sikafloor®-374 SL Decor ID

**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**

- Before the application of Sikafloor®-374 SL Decor ID system, and due to the wide variety of color and pattern achievable, it is highly recommended that a reference area to be applied. This reference area must be assessed and accepted by the contractor and or owner/client.
- Application of Sikafloor®-374 SL Decor ID should be applied at evening until midnight to minimize discolouring.
- Freshly applied Sikafloor®-374 SL Decor ID must be protected from damp, condensation and water for at least 24 hours.
- For achieving best aesthetic surface finish, ensure the Sikafloor®-374 SL Decor ID in each area is applied from the same control batch numbers.
- Under UV-exposure some discoloration (yellowing) shall occur, however this has no influence on the function and performance of the floor.
- For coving, it is recommended to use either pre-fabricated elements (for easy of application) or to use an epoxy mortar made by Sikafloor®-161 HC with top sealing coat(s) of Sikafloor®-264 HC, colored epoxy resin (please consult our respective product data sheets).
- Do not apply Sikafloor®-374 SL Decor ID 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 apply on substrate surfaces with a slope > 1%.
- 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 Guarantee.
- 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<sub>2</sub> and H<sub>2</sub>O 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/mm<sup>2</sup>) with a minimum pull off strength of 1.5 N/mm<sup>2</sup>. 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 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

1. Prior to mixing, stir part A mechanically using low speed (100 – 200 rpm) for 30 seconds.
2. Before adding part C into part A, please be aware that there is a component of Sika® Extender T inside the part C and have been taken out from packaging before pouring.
3. Add slowly part C into part A, mix continuously for 1 minutes until uniform mix has been achieved. Then Add Sika® Extender T (included on part C) into mixed A and C while mix until homogeneous (~1 – 1.5 minutes), please ensure there are no lumps. It can be mixed earlier before application to minimize waiting times between mix during application process, but we recommend to conducting this step maximum 2 hours before application.
4. When the application area, man powers, and application tools are ready, Add part D into mixed comp. A, C (included Ext. T) while mix until homogeneous (~1 minutes), please ensure decorative filler has been uniform in distribution.
5. Add Comp. B into mixed comp. A, C (included Ext. T), D while mix continuously for 1 – 1.5 minutes until a uniform mix has been achieved. Total mixing time is approximately 5 minutes.
6. For mixing step 3 until 5, use hand mixer with low to medium speed (300-400 rpm) to mix the part A with part C, part D, and B.
7. Over mixing must be avoided to minimize air entrainment.

## MIXING TOOLS

Sikafloor®-374 SL Decor ID must be mechanically mixed using an electric power stirrer (100 – 200 rpm) and (300 - 400 rpm) 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 Epo-Cem® ID may be applied as a T.M.B. (temporary moisture barrier) system.

### Thin self-smoothing layer:

Sikafloor®-374 SL Decor ID is applied with a fine ser-rated trowel and flat trowel, roll immediately in two directions with a spiked roller to ensure even thickness and to remove entrapped air.

## CLEANING OF EQUIPMENT

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

# MAINTENANCE INSTRUCTIONS

## CLEANING

To maintain the appearance of the floor after application, Sikafloor®-374 SL Decor ID 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.

## 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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