

## PRODUCT DATA SHEET

# Sikafloor®-92 SL

A THREE COMPONENTS , SOLVENT-FREE , PIGMENTED SELF-SMOOTHING EPOXY RESIN TOPPING FOR CONCRETE FLOORS .

### DESCRIPTION

**Sikafloor 92SL** consists of graded aggregates bound in a pigmented epoxy resin binder for use in a wide range of light to medium with thickness between 1mm - 4mm depends on the aggregate's size used .  
When laid it provides a smooth , light reflective surface and high gloss finish .

### USES

Sikafloor®-92 SL may only be used by experienced professionals.

- As a seamless, self levelling floor topping for Industrial floorings e.g.:
- Food-processing industry.
- Chemical industry facilities .
- Power stations.
- Water industry.
- Pharmaceutical and other medical laboratory situations .
- Dry production areas .
- Car production facilities .
- Garages & traffic decking where light - medium duty vehicles is required .
- Clean rooms.
- Exhibition halls and showrooms.
- Demonstration areas and training rooms.
- Aircraft hangers .
- Warehouses & maintenance areas .
- On mineral-based substrates such as Concrete & Mortar & Epoxy modified cement mortars (EpoCem).

### CHARACTERISTICS / ADVANTAGES

- Easy and fast application - minimises downtime .
- Solvent free, no fire hazard.
- Excellent adhesion to substrate.
- Durable - good abrasion resistant .
- Hygienic - Provides a dense , impervious and seamless floor surface which is easily cleaned .

- Limited maintenance .
- Waterproof.
- Good resistant to wide range of industrial chemicals .  
In addition to oils , greases , lubricants , fuel and sky-drol .

### APPROVALS / CERTIFICATES

Sikafloor®-92SL has been tested as per SCAQMD Method 304-91  
Result: VOC Content < 100g/l

## PRODUCT INFORMATION

|   |   |
|---|---|
| Composition                             | Epoxy   |
| Packaging                               | Ready for use pre-proportioned units at :<br>30.82 kg (A+B+C) for Self levelling system (1.0 mm thickness.)<br>26.80 kg (A+B+C) for Self levelling system (1.5 - 3.0 mm thickness.)<br>25 kg (A+B+C) for Self levelling system (2.0 - 4.0 mm thickness.)  |
| Appearance / Colour                     | Light grey (approx. RAL 7032)<br>Other colours on request.  |
| Shelf life                              | 12 months from date of production if stored properly in original unopened packing.  |
| Storage conditions                      | Store at temperatures between + 5°C and + 30°C.   |
| Density                                 | Comp. (A) : ~ 1.16 kg/l<br>Comp. (B) : ~ 1.02 kg/l<br>Comp. (A+B) : ~ 1.11 kg/l   |
| Solid content by weight                 | 100 % by weight   |
| Volatile organic compound (VOC) content | VOC content < 100 g/l   |
| Shore D Hardness                        | 80 tested according to ASTM D2240   |
| Abrasion Resistance                     | 67 mg loss - CS 10 - 1000 cycle - load 1000 g -14 days at 23°C) (ASTM D4060)  |
| Compressive Strength                    | 50 N/mm <sup>2</sup> tested according to ASTM C579 - Method B   |
| Tensile Strength in Flexure             | > 28 N/mm <sup>2</sup> tested according to ASTM C580  |
| Tensile Strength                        | > 20 N/mm <sup>2</sup> tested according to ASTM D638  |
| Tensile Adhesion Strength               | Bond Strength (after 14 days at 23°C) : 3 N/mm <sup>2</sup> (Concrete failure) .<br>ASTM D4541 (Pull off)<br>Bond Strength to concrete : 2 N/mm <sup>2</sup> (Concrete failure) . ISO 4624 (Pull off)   |
| Chemical Resistance                     | Wide rang of industrial chemicals , acids such as : <ul style="list-style-type: none"><li>▪ Hydrochloride acid 50% ( Slightly color change )</li><li>▪ Sulfuric acid 50% ( Slightly color change )</li><li>▪ Sodium Hydroxide 50% ( No effect )</li><li>▪ Petro ( No effect )</li><li>▪ Acetic acid upto 30% ( No effect )</li><li>▪ Engine oil ( No effect )</li><li>▪ Kerosene ( No effect )</li><li>▪ Sky droll ( No effect )</li><li>▪ Sugar solution ( No effect )</li></ul> |
| Water Absorption                        | ~ (0.1 - 0.2) % tested according to ASTM C413   |

## SYSTEMS

|         |   |
|---------|---|
| Systems | <b>For (1.0 mm) thick.</b><br>Primer:<br>1 X Sikafloor® -161 (comp. A+B) or Sikafloor® -94 (comp. A+B) , Consumption: approx. 0.20-0.30 kg/m <sup>2</sup> depending on substrate conditions.<br>Self-levelling Layer:<br>Sikafloor® -92SL / 0 (comp. A+B+C)<br>Consumption : approx. ~1.6 kg/m <sup>2</sup> for 1mm thickness (Flat & smooth surface)<br>Where comp. (C) = Sikafloor Filler 0<br><b>For (1.5 - 3.0 mm) thick.</b> |
|---------|---|

Primer:

1 X Sikafloor® -161 (comp. A+B) or Sikafloor® -94 (comp. A+B) ,Consumption: approx. 0.20-0.30 kg/m<sup>2</sup> depending on substrate conditions.

Self-levelling Layer:

Sikafloor® -92SL (comp. A+B+C)

Consumption : approx. ~1.7 kg/m<sup>2</sup> for each 1mm thickness

Where comp. (C) = Sikafloor Filler 1

**For (2.0 – 4.0 mm) thick.**

Primer:

1 X Sikafloor® -161 (comp. A+B) or Sikafloor® -94 (comp. A+B) ,Consumption: approx. 0.20-0.30 kg/m<sup>2</sup> depending on substrate conditions.

Self –levelling Layer:

Sikafloor® -92SL (comp. A+B+C)

Consumption : approx. 1.85 kg/m<sup>2</sup> for each 1mm thickness

Where comp. (C) = Sikafloor Filler 2

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## APPLICATION INFORMATION

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|----------------------------|--|
| Relative Air Humidity      | 75%  |
| Substrate Moisture Content | < 4%   |
| Pot Life                   | (20°C / 75% r.h.) 45 min.  |
| Curing Time                | <ul style="list-style-type: none"><li>▪ Can be walked on after : 24 hours</li><li>▪ Light mechanical loading permitted after : 3 days</li><li>▪ Fully cured after : 7 days</li></ul> |
| Waiting Time / Overcoating | 6 - 8 hrs (25°C / 75% r.h.)  |

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## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

The concrete substrate must be structurally sound , clean, dry and free from all traces of loose material, laitance, oil , grease and any contaminations . Any unsound material or defective concrete must be removed.

A light etch , giving the texture of medium grit sand paper , is the ideal surface profile for the application of Sikafloor 92SL . This can be achieved by light blasting , high water jetting or surface grinding .

Cracks must be open and filled in addition to all cavities and holes using epoxy filling mortar such as Sikadur 41 , Sikadur 42 or Sikafloor 161 mortar .

After all preparation has been finished , ensure the whole dust will be removed by vacuuming .

### MIXING

Stir component (A) thoroughly with an electric stirrer prior to batching. Add component (B) in the correct mix ratio and mix for 2-3 minutes at a low speed, when the two components are well mixed, add component (C) gradually while mixing (a little at a time) and mix for a further 3 minutes at low speed or until it can be seen that the mixed material is lump free . Then allow the whole mix to rest for at least 1 minute to exit the trapped air .

### APPLICATION

- Apply an even layer of the mixed material onto the prepared primed substrate using a notched trowel or

spreader (Rubber or steel, 6-7mm notches).

- Roll immediately with a spiked roller to ensure uniform thickness and remove trapped air.

### CLEANING OF EQUIPMENT

1. Clean all tools and equipment immediately after use with Colma-Cleaner.
2. Once hardened, the material can only be removed mechanically.
3. Wash soiled hands and skin thoroughly with hot soapy water.

## IMPORTANT CONSIDERATIONS

- Maximum permitted gradient 3%.
- Substrate temperature must be 3°C above measured dew point.
- Maximum relative humidity 75%.
- Cementitious substrate must be at least 3 weeks old.
- Maximum moisture content of substrate < 4%.

## 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

- Ecology  
In a liquid state comp. (A+B) can contaminate water.  
Do not dispose of into water or soil but according to local regulations
- Transport  
Comp. (A): Non-hazardous.  
Comp. (B): Non-hazardous.
- Safety precautions  
This product can cause skin irritation to persons with sensitive skin. Always rub barrier cream into hands and exposed skin before starting work. Wear protective clothing (gloves and goggles). If Sikafloor®-92SL is accidentally splashed into the eyes, nose, mouth or throat, flush immediately with plenty of clean, warm water and seek medical attention without delay.
- Toxicity  
Comp. (A): Class 4, under the relevant Swiss health and safety codes.  
Comp. (B): Class 4.

## 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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