

PRODUCT DATA SHEET

Sikafloor®-92 EG

HIGH BUILD , SOLVENT FREE , EPOXY RESIN FLOOR COATING

DESCRIPTION

Sikafloor 92EG is a two components , solvent free , epoxy resing floor topping which provides hardwear-ing , chemical and abrasion resistant flooring system .

USES

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

Sikafloor 92EG has multi properties that lead it to be used in different industrails and different fields such as :

- Food-processing industry
- Chemical manufacturing plants
- Beverage Production
- Pharmaceutical and other medical laboratory fields
- Power stations
- Water industry
- Clean rooms
- Car parks and workshops
- Exhibition halls and showrooms
- Demonstration areas and training rooms
- Airports , aircraft hangers
- Warehouses and storage areas
- Areas where hygienic properties and smooth finish is required
- Areas where highly slipping and temporary wet where anti - slip finish is needed

CHARACTERISTICS / ADVANTAGES

- Easy and fast to apply.
- Solvent free, no fire hazard.
- Excellent adhesion to concrete substrate
- Waterproof due to its water absorbtion properties
- Excellent wear and abrasion resistant
- Easy to clean
- Dust Proof
- Slip resistance finish could be provided
- Durable , low maintenance costs
- Stable against organic solvents's effect such as Ben-

- zine , Kerosene , Common oils , greases and skydrol
- Good resistant to plenty of general and common acids with certain concentrations according to ASTM D543 such as :

1. Hydrochloride acid 50% (Slightly color change)
2. Sulfuric acid 50% (Slightly color change)
3. Sodium Hydroxide 50% (No effect)
4. Petro (No effect)
5. Acetic acid upto 30% (No effect)
6. Engine oil (No effect)
7. Kerosene (No effect)
8. Sky droll (No effect)
9. Sugar solution (No effect)

In addition , it offers good chemical resistance , but as in all corrosive situations , a full analysis of operating and exposure conditions is required , followed by reference to chemical resistance data to ensure product suitability .

SUSTAINABILITY

APPROVALS / CERTIFICATES

- Chemical resistance test report from National Research Center
- Sikafloor 92 EG has been tested as per SCAQMD Rule 304-91.
Result: VOC Content <100 g/L

PRODUCT INFORMATION

Composition	Epoxy resin
Packaging	Ready for use pre-proportioned units at 15 kg (A+B).
Appearance / Colour	Light grey Other colours on request
Shelf life	12 months from date of production if stored properly in original unopened packing.
Storage conditions	Store in shade away from direct sunlight and in dry conditions.
Density	Comp. (A) : ~ 1.53 kg/l Comp. (B) : ~ 1.02 kg/l Comp. (A+B) : ~ 1.42 kg/l
Solid content	
Solid content by weight	100 %
Solid content by volume	100 %

TECHNICAL INFORMATION

Shore D Hardness	~ 81 (7Days / 23°C) (ASTM-D2240)
Abrasion Resistance	(CS 10/1000 Cycles/1000 g) (7 days / 23°C) (ASTM-D4060)
Compressive Strength	~ 84 N/mm ² (7Days ASTM C579 - Method B)
Tensile Strength in Flexure	~ 38 N/mm ² (7Days / 23°C) (ASTM-D790)
Tensile Strength	~ 23 N/mm ² (7Days / 23°C) (ASTM-D638)
Temperature Resistance	Reaction to fire (Class A) For Flame Spread Index (FSI) and Smoke Development Index (SDI)
Service Temperature	It works in a temperature rang higher than +2°C & lower than +65°C
Water Absorption	< 0.1% according to ASTM D570

SYSTEMS

Systems	<ul style="list-style-type: none">Primer : one layer primer using one of the proposed solutions below will be sufficient in case of non porous substrates :<ol style="list-style-type: none">Sikafloor 94 (A+B) with consumption 150 - 200 gm/m²Sikafloor 161 (A+B) with consumption 200 - 250 gm/m²Sikafloor 161 (A+B+C) as a scratch layer with consumption 300 gm/m² where component C is a fine fillerSikafloor 92EG diluted 10% solvent as a self priming with consumption 200 gm/m²The primer should be left to achieve a tack-free condition before applying the top coats . A second layer of primer may be required if the substrate is excessively porous .<ul style="list-style-type: none">Putty : to seal the concrete surface and closing the pin holes , minor cracks on the floor substrate using Sikafloor 92EG added to fine filler with consumption approx 100 - 150 gm/m²/ layer depending on substrate conditions. Maybe a second putty layer be required based on the surface need .Coating: 2 X Sikafloor® -92 EG (comp. A+B) with consumption 200 - 250 gm/m²/layerA slip resistant finish can also be achieved by evenly spreading Sikadur Aggregates on the wet applied first coat of Sikafloor 92EG where it is still tacky .
---------	---

APPLICATION INFORMATION

Mixing Ratio	Comp(A) : Comp (B) = 4 : 1
Relative Air Humidity	75%.
Substrate Moisture Content	< 4%.
Pot Life	(20°C) 45 min.
Curing Time	<ul style="list-style-type: none">▪ Can be walked on after : 24 hours▪ Light mechanical loading permitted after : 3 days▪ Fully cured after : 7 days

APPLICATION INSTRUCTIONS

Surface Preparation

- The long term durability of any resin floor system is determined by the adhesive bond achieved between the flooring material and the substrate . It is most important therefore that substrates are correctly prepared prior to application .
- These should normally have been placed for at least 28 days and have a moisture content of less than 5% .
- Floors should be sound , clean and free from contamination such as oil , grease , paint splashes , curing compounds , laitance and any loose material .
- Cavities or defects on the surface must be treated and filled using suitable material (eg. Mortar from Sikafloor 161)
- Mechanical means of preparation (such as light grit blasting , high pressure water jetting or grinding) are preferred followed by the removal of dust and other loose debris using as industrial vacuum .

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 until a homogeneous mix is achieved.

APPLICATION

Brush/Roller In order to achieve an even and uniform coverage of the surface at least the first application should be carried out by brush. Application by roller, especially for the second application, is possible, whereby the roller should be pressed firmly to the surface

CLEANING OF EQUIPMENT

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

IMPORTANT CONSIDERATIONS

- Cementitious substrate must be at least 3 weeks old.
- Maximum moisture content of substrate < 4%.
- Maximum relative humidity 75%.

- Substrate temperature must be 3°C above measured dew point.

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®- 92 EG 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 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.

Sika Egypt

1st Industrial Zone (A)
Section #10, Block 13035
El Obour City, Egypt
TEL: +202 44810580
FAX: +202 44810459
egy.sika.com

Alexandria Office

4, Mihamed Masoud st
Bab Sharki
Alexandria
Tel: +203 4244 601/2/3
Mob:+2012-23909922
Fax: +203 4244 604

Cairo Sales office

222,El-Hegaz St, Heliopolis,
Cairo
Egypt
Tel:+202-26235032 /4
Mob:+2012-23999700
Fax:+202-26235637

Borg El-Arab Factory

2nd industrial zone block 28
Borg El Arab City, Alexandria
Egypt
Tel:+203-4592654/1417
Mob:+2012-23919291
Fax:+203-4592036

**Product Data Sheet****Sikafloor®-92 EG**

November 2019, Version 02.01
020811020010000004