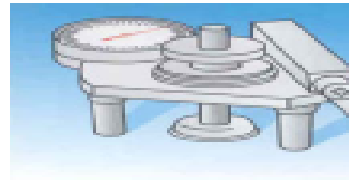


# Method Statement for Application “SIKA EGYPT” **Sikafloor -91** Flooring Systems

Scope: **Heavy Duty Epoxy Resin Floor Screed**

## **A- Limitations:**

- Minimum age of cementitious substrate (3-6) weeks depending on climate conditions and curing, unless we use one of Epocem's technology products
- The compressive strength should be  $\geq 25 \text{ N/mm}^2$  or to meet defined loads.
- The adhesive tensile strength should be  $\geq 1.5 \text{ N/mm}^2$



Testing of the substrate  
Pull-off strength  $> 1.5 \text{ N/mm}^2$ .  
E.g. Proceq, Dyna pull-off tester.

- The moisture content in the concrete should be  $< 4\%$



Measuring of the substrate moisture:  
Moisture content  $< 4\%$  by weight.  
E.g. Sika Tramex moisture meter.



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- The relative humidity should be  $< 80\%$

Relative air humidity:



Relative air humidity max. 80%

The bearing layer surface temperature should be 3% degrees above the determined dew point temperature in order to avoid water condensation.

- Minimum substrate temperature  $+ 10^{\circ}\text{C}$



Substrate temperature  $> 10^{\circ}\text{C}$

## **B- Surface Preparation:**

- The substrate must be clean –free from grease, oils or organic/in organic acids and all loosely adhering particles-dry and sound.
- For good bond insufficient layers and oily contamination's must be removed mechanically also for, e.g. by sand blasting or grinding.
- Vacuum cleaning is than required.



Preparation of the substrate:  
Blast cleaning or other mechanical means.  
E.g. Blastac.

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### **C- Primer Layer**

- Apply Sika Floor 94 (*Two-component low viscosity primer, based on epoxy resin*)
- Prior to application of Sikafloor® 94 both components A + B have to be mixed intensively with an electrical or pneumatically stirrer of approx. 300 – 400 rpm. Mixing time is minimum 3 minutes but it may take longer until a homogeneous mixture is achieved.
- To achieve uniform and perfect wetting, Pour properly prepared material onto substrate and evenly distribute using roller or brush.
- Consumption depending on porosity of substrate minimum 2 x Sikafloor® 94, .Material consumption approx. 0.2- 0.3 kg/m<sup>2</sup> / coat.



Apply by brush, roller or squeegee and work well into the substrate.

### **D- Mortar Screed Layer**

- Apply Sika Floor 91 (*A three-component solvent-free pigmented mortar screed based on epoxy resins*)
  1. After priming the surface with SikaFloor 94 apply the Mortar Screed Layer Wet on Wet
  2. Apply an even layer of the mixed material onto the prepared primed substrate using then Tamp down with a beam laid across steel screeding rails and finish with a steel float.

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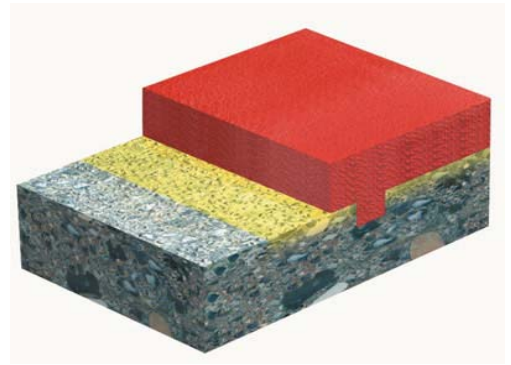
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## Sika System

- Primer : Sikafloor-94 , a solvent free epoxy primer
- Mortar screed layer (av. Thickness 5 – 8mm) a solvent free, Coloured epoxy binder



*For any further clarification don't hesitate to contact Sika Egypt Technical Department.*

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### Technical Department.

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 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 proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the Product Data Sheet for the product concerned, copies of which will be supplied on request

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