

Method Statement for Application Of **Sikafloor[®] -92EG**

“SIKA EGYPT” Flooring Systems

Construction



Sika Egypt

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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 ≥ 25 N/mm² or to meet defined loads.
- The adhesive tensile strength should be ≥ 1.5 N/mm²
- The moisture content in the concrete should be $< 4\%$
- The relative humidity should be $< 75\%$
- 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°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.
- Any cavities defects in the surface should be levelled with suitable material (Sikafloor[®] 94 or 161).

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3. Substrate Requirements

3.1 Pull off and compressive strength

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

If in doubt, apply a test area first.



Testing of the substrate
Pull-off strength > 1.5 N/mm².
E.g. Proceq, Dyna pull-off tester.

3.2 Moisture content

Prior to application, confirm substrate moisture content, r.h. and dew point.
If > 4% pbw moisture content, Sikafloor® EpoCem® may be applied as a T.M.B.
(temporary moisture barrier) system.



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

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Tramex moisture meter.

There must be no rising moisture according to ASTM D 4263 (Polyethylene sheet test)



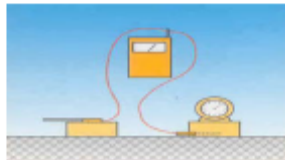
< 4% pbw if priming with Sikafloor®-161 VP

> 4% pbw application of a temporary moisture barrier with Sikafloor®-81 EpoCem (please refer to Sikafloor-81 EpoCem Product Data Sheet)

3.3 Ambient and surface temperature

Ambient and Surface temperature:

- Min. +10°C (but at least 3°C above dew point)
- Max. +30°C



Defining the climatic conditions:
Substrate temp. > 3°C above dew point
E.g. thermometer, hygrometer, dew point table.

C- Primer Layer

- Apply Sika Floor® 94 or 161 (*Two-component low viscosity primer, based on epoxy resin*)
- Prior to application of Sikafloor® 94 or 161 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/m² / coat.

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D- Coating and Sealing Layer

- Apply Sika Floor[®] 92 EG (A two component solvent-free pigmented coating flooring compound based on epoxy resins)
 1. After priming the surface with Sikafloor[®] 94 apply the Coating layer (wait not less than 8 hours before applying coating layer)
 2. Apply an even layer of the mixed material onto the prepared primed substrate using a short piled lambskin roller.
 3. Sika Floor[®] 92 EG consumption approx. 0.25 – 0.35 kg/m² for one coat.

E- Application tools

- Brush (For small areas)

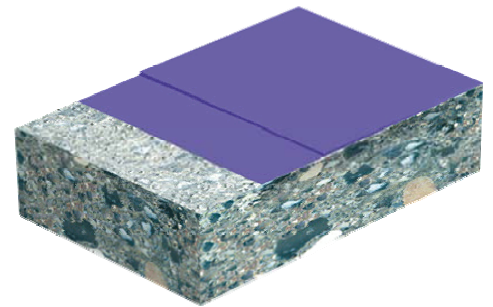


- Roller (For big areas)



Sika System

- Primer : Sikafloor[®] -94 or 161, a solvent free epoxy primer
- 2 coats of Sikafloor[®] -92EG a solvent free, Coloured epoxy binder



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

Technical Department



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