

Sikafloor® 94

Solvent free epoxy primer and sealer

Positioning

Description

Sikafloor® 94 is an economical 2 component low viscosity epoxy resin based primer and sealer.

Uses

Sikafloor® 94 has a range of different applications. It is used in the following situations:

As a primer/bonding agent for:

- epoxy mortar screeds
- self leveling epoxy floor toppings

As a protective and penetrating sealer for:

- concrete surfaces
- cement based mortars and plaster
- fibre cement sheeting
- concrete and mortar screeds
- mineral based substrates

As an impregnation for binding and sealing weak or dusting concrete floors in the following situations:

- garages and workshops
- factories and showrooms
- warehouses and stores

Sikafloor® 94 is also ideal as a sealer for concrete and mortar floor screeds to prevent contamination from oils, grease, dirt etc.

Advantages

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| <ul style="list-style-type: none"> • Excellent penetration on cement based substrates • Good chemical resistance • Solvent free, low odour • Ideal as a concrete sealer where surface dusting is a problem • Good mechanical resistance | <ul style="list-style-type: none"> • Economical • Easy to apply with brush or roller • Excellent for stabilising weak or friable concrete surfaces • Does not embrittle - retains a slightly flexible nature |
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Product Data

Form:

Two component, low viscosity epoxy resin liquid.

Colour:

Yellowish, Transparent

Packaging:

Supplied in 2.78litre and 30litre kits (Component A + B)

Storage & Shelf Life:

Approximately three (3) years in unopened original containers when stored in dry conditions between 5°C and 35°C.

Technical Data

Density:

1.08kg/litre approx. when mixed.

Thermal resistance:

Dry heat up to 150°C temporary exposure
Up to 60°C long term exposure

Chemical resistance:

Chemically resistant to a wide range of materials - refer to **Sikafloor** chemical resistance chart.

Application temp:

(ambient/substrate) Minimum = +5°C
Maximum = +30°C
Maximum relative humidity = 90%



Compressive strength:	40MPa approx.			
Tensile strength:	22MPa approx.			
Elongation at break:	5% approx.			
Adhesive strength:	Dry concrete = 3.5MPa approx. (concrete failure). Steel (sandblasted) = 12MPa approx.			
Mixing ratio:	2 parts Component A : 1 part Component B by weight.			
Pot Life (1 litre mix):	5°C = 75 minutes approx 10°C = 30 minutes approx 20°C = 20 minutes approx 30°C = 10 minutes approx			
Coverage rate:	3 - 5m ² /litre/coat - depending on surface texture and porosity.			
Curing times (approx.):		30°C	20°C	10°C
	repaintable/walkable	5 hours	8 hours	15 hours
	fully cured	5 days	7 days	10 days
Waiting time between coats:	Maximum 24 hours.			

Application Conditions

Surface Preparation

- The substrate must be sound, free from dust and any surface contaminants such as; oil, grease, fats, chemicals, rust, paints, curing membranes etc.
- Sikafloor® 94 can be applied to damp substrates with up to 6% moisture content however surface may bloom (whiten) if moisture content is greater than 6%.
- Surface damage or holes should be repaired with the appropriate Sikadur or EpoCem epoxy mortar. This is essential in all areas where liquids are to be contained.
- Cement based surfaces should be at least 3 - 4 weeks old and should be prepared by shot/sandblasting, acid etching, high pressure water blasting, scabbling etc to remove cement laitance.
- Steel substrates should be prepared by abrasive blast cleaning to a standard equivalent to S.A. 2.5.

Mixing

- Add the contents of Component B to Component A. Using a spiral mixer attached to a slow speed (500 rpm) drill, mix together for at least 3 - 5 minutes until a completely homogeneous consistency is achieved.
- Do not mix more material than can be comfortably used within the pot life.

Application

- Using a roller or brush, work Sikafloor® 94 into the surface at a uniform and even rate of coverage.
- If the substrate is damp the first coat should always be brush applied to ensure complete 'wetting out' of the surface with epoxy.
- Coating application should be carried out on porous surfaces when the substrate temperature is falling to avoid the possibility of bubbling and to improve penetration into the pores.
- On particularly porous or friable substrates 2-3 coats will be required to achieve full sealing properties.
- Overcoating should be carried out within 24 hours of the last coat being applied. If recoating has not occurred within this period the surface should be abraded with fine sandpaper and wiped clean with Sika Thinner C. Recoat immediately after the Sika Thinner C has completely evaporated.

Cleaning of Tools

- Clean all tools and equipment immediately after use with Sika Thinner C.
- Cured Sikafloor® 94 can only be removed mechanically.

Important Notes

- Sikafloor® 94 must not be diluted. Thinning will affect its cured performance.
- Do not apply to surfaces with a moisture content exceeding 6%.
- Sikafloor® 94 may turn 'milky' in appearance when applied to damp surfaces (greater than 6%).
- Concrete substrates should have a minimum compressive strength of 25 MPa and a minimum pull off strength of 1.5 MPa where subsequent epoxy coatings are to be applied.
- Most cement based substrates are porous. Expansion of air trapped in pores and cracks caused by rising substrate temperatures will cause bubbles and pin holes to form in the coating once it is applied. Always apply Sikafloor® 94 to porous substrates during stable or decreasing temperatures.
- Sikafloor® 94 will 'yellow' with constant UV exposure.
- The temperature which Sikafloor® 94 is stored during the 24 hours before mixing will govern its pot life when mixed. Do not allow to freeze.
- Do not apply Sikafloor® 94 to cement based mortars that are polymer modified.
- If overcoating an epoxy mortar floor screed such as Sikadur® 41, allow to harden prior to application of Sikafloor® 94.



- Freshly applied coatings should be protected from dampness, condensation and water for at least 24 hours. Coatings must not be applied unless the substrate temperature is at least 3°C above the measured dew point.
- During application and curing in confined spaces ensure that adequate ventilation is provided.

Cleaning	Please refer to "Cleaning & Maintenance Recommendations for Sika Floor Installations" for detailed instructions.
Notes	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.
Health & Safety Instructions	
Protective Measures	<ul style="list-style-type: none"> • To avoid rare allergic reactions, we recommend the use of protective gloves. Change soiled work clothes and wash hands before breaks and after finishing work. • Local regulations as well as health and safety advice on packaging labels must be observed. • For further information refer to the Sika Material Safety Data Sheet which is available on request. • If in doubt always follow the directions given on the pack or label.
Transportation Class	Sikafloor 94 Comp B is classified as hazardous for transportation: Haz Class 8, UN No 1760, Haz Chem 2R, Packing Group III.
Important Notes	<ul style="list-style-type: none"> • Residues of material must be removed according to local regulations. Fully cured material can be disposed of as household waste under agreement with the responsible local authorities. • Detailed health and safety information as well as detailed precautionary measures e.g. physical, toxicological and ecological data can be obtained from the safety data sheet.

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.



Project Reference

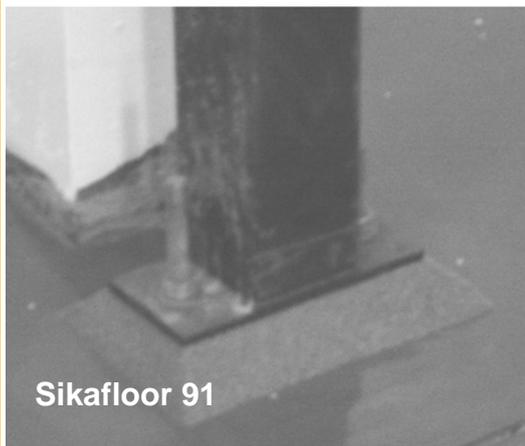
FRUITWORLD BUTCHERY



Sikafloor 81 EpoCem



Sikafloor 91 Covings



Sikafloor 91



Sikafloor 91 Screed

Requirement:

A newly placed concrete floor (only ten days old) needed a highly durable, non-slip coating installed and cured over a weekend, ready for food processing operations to commence on Monday.

Solution:

Cement substrates should normally be at least 3-4 weeks old with a moisture content below 6% before any coatings can be successfully applied. In order to complete the application of the floor coating on the new (damp) concrete and within the short timeframe, Sikafloor 81 EpoCem was applied as a temporary moisture barrier. This then allowed the application of the Sikafloor 91 screed and 100mm coves, without the usual waiting period. Floor joints were sealed with Sikaflex 11FC, a one-component flexible joint sealant.

Products Used:

Sikafloor 81 EpoCem-	Epoxy cement floor topping
Sikafloor 94	- Solvent free epoxy primer and sealer
Sikafloor 91	- Heavy duty epoxy resin floor screed
Sikaflex 11FC	- Polyurethane joint sealant & adhesive

Reference: AKL265



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