

Sikafloor®-94

Low viscosity, solvent-free epoxy primer and general epoxy binder

Construction

Description

Sikafloor-94 is a 2-component epoxy-based primer of low viscosity and general epoxy binder.

Uses

As a primer, penetrating sealer and bonding agent on:

- Concrete, mortar stone.
- Cement renderings, asbestos cement.
- Timber.

As a bonding agent for:

- Epoxy mortar screeds.
- Epoxy self-levelling floor toppings.

For impregnating and sealing cement-based floorings in:

- Warehouses and stores.
- Garages.
- Boiler rooms.
- Corridors.

As a binder for Sikafloor 91 epoxy mortar:

- Mortar screeds.
 - Subfill for floor levelling.
 - Coving.
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Advantages

- Suitable for use on dry and damp substrates.
 - Excellent penetration on cement based substrates.
 - Can be applied by brush or roller.
 - Available in bulk quantities.
 - Good mechanical resistance.
 - Good chemical resistance.
 - Economical.
 - Short waiting times before subsequent coatings.
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Storage and Shelf Life

Stored in original sealed containers within the temperature range of +5°C to +35°C, this product will keep for a minimum of three (3) years.

Instructions for Use

Surface Preparation

Surfaces must be clean and free from all traces of loose materials, old coatings, curing membranes, release agents, laitance, oil and greases etc. Substrate compressive strength should be at least 25MPa, cohesive bond strength at least 1.5MPa and maximum moisture content of the substrate should be 4%.

Structurally unsound layers and surface contaminants must be mechanically removed by abrasive blasting, blast tracking or grinding. Substrates heavily impregnated with oil must be cleaned by torching or suitable solvent cleaning methods. To check that all traces of oil have been completely removed, sprinkle a few drops of water over the surface. If all the water is quickly absorbed, the surface is sufficiently oil and grease free. If the water forms into globules that remain on the surface, further thorough treatment of the concrete is necessary.

Mixing

Mix components A and B in the correct ratio until a completely homogenous consistency is obtained.

Do not make up more material than can be comfortably applied within the potlife.



Technical and Physical Data

Form	Low viscosity liquid			
Density	1.1 kg / litre			
Colour	Yellowish transparent			
Mechanical Strength (7 days @ 20°C)	Compressive strength:	40 MPa approx.		
	Tensile strength:	22 MPa approx.		
	Adhesion to steel (sandblasted) :	12 MPa approx.		
	Adhesion to concrete:	>3.5 MPa approx. (<i>substrate failure</i>)		
	Elongation at break:	5% approx.		
Rate of Reaction		10°C	20°C	30°C
	Potlife	30 mins	20 mins	15 mins
	Walkable/Overcoatable	15 hours	8 hours	5 hours
	Fully cured	10 days	7 days	5 days
Limits on application	Minimum air and substrate temperature:	+5°C		
	Maximum air and substrate temperature:	+30°C		
	Maximum waiting time between coats:	24 hours		
	Maximum Relative Humidity during cure:	90%		
Mix ratio	Part A : Part B = 2 : 1 (by mass and volume)			
Consumption	0.2 – 0.3 kg / m ² (<i>depending on porosity and surface texture of the substrate</i>)			
Temperature resistance	Maximum 60°C (cured)			
Packaging	Proportioned 30 kg kit:	Part A: 20 kg Part B: 10 kg		
	Bulk Packaging:	Part A: 200 kg drum Part B: 200 kg drum		
	Part A 20L Bucket Part B 20L Bucket			
Application	Apply Sikafloor-94 with a brush or roller to achieve a continuous and even coverage. On damp surfaces work the material well into the substrate with a stiff brush. Ensure priming/sealing coats are kept clean and free from dust, water, condensation (observe dewpoint), etc. prior to subsequent overcoating. In cases of extended intercoat periods (in excess of 24 hours at 20°C) it is advisable to lightly abrade and solvent wipe the surface of the cured Sikafloor-94 prior to overcoating (ensure the solvent has completely dried from the surface prior to overcoating) to provide optimum bond.			
Cleaning	Clean all tools and equipment immediately after use with Sika Thinner C. Once hardened, the material can only be removed mechanically. Wash soiled hands and skin thoroughly in hot soapy water.			
Important Notes	<ul style="list-style-type: none"> • Prior to mixing store Parts A and B at between 10°C and 20°C in dry conditions. • Minimum air and substrate temperature during application and cure period 5°C. • A long potlife and a rapid curing version of Sikafloor 94 is available (Sikafloor-94 LP and Sikafloor-94 Rapid). Ask Sika's Technical Department for further details. • For optimum penetration and adhesion substrates should be dry. 			



Handling Precautions

- Avoid contact with skin, eyes and avoid breathing it's vapour.
- Wear protective gloves when mixing or using.
- If poisoning occurs, contact a doctor or Poisons Information Centre.
- If swallowed, do NOT induce vomiting. Give a glass of water.
- If skin contact occurs, remove contaminated clothing and wash skin thoroughly.
- If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.
- A full Material Safety Data Sheet is available from Sika on request.

Important Notification

The information, and, in particular, the recommendations relating to the application and end-use of Sika's 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 of our terms and conditions of sale. Users should always refer to the most recent issue of the Technical Data Sheet for the product concerned, copies of which will be supplied on request.

PLEASE CONSULT OUR TECHNICAL DEPARTMENT FOR FURTHER INFORMATION.



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