

PRODUCT DATA SHEET

Sikafloor®-91

Heavy Duty Epoxy Resin Floor Screed

SIKA NZ
APPROVED
CONTRACTOR
ONLY

DESCRIPTION

A three-component solvent-free mortar screed based on epoxy resins.

USES

Sikafloor®-91 may only be used by experienced professionals.

As a non-slip, abrasion-resistant epoxy resin floor coating of 5-8 mm thickness:

- Industrial flooring subject to moderate or heavy loading
- Workshop and factory floors
- Machine shops and warehouses
- Depots and loading ramps
- Hangars
- Stairs

CHARACTERISTICS / ADVANTAGES

- Easy and fast to apply.
- Solvent-free, no fire risk.
- Excellent adhesion to substrate.
- Non-slip, non-skid finish.
- Excellent abrasion resistance.
- High mechanical strength.
- Permeable to water vapour.

APPROVALS / STANDARDS

Sikafloor -91 has been tested as per SCAQMD Rule 304-91.

Result: VOC Content <100 g/L

PRODUCT INFORMATION

Chemical Base	Epoxy
Packaging	Comp. (A+B): 30 litre kit, and bulk Part A 200 kg, bulk Part B 200 kg. Comp. C (Sika® Aggregatre-506): 20 kg bag.
Appearance / Colour	Amber with neutral coloured aggregates
Shelf Life	12 months from date of production if stored properly in original unopened packing. Note: Component (A), Sikafloor®-91 pigmented, must be thoroughly stirred with a mechanical stirrer prior to each batching. Segregation may occur after 10 hours.
Storage Conditions	Store in dry condition at temperatures between +5°C and +30°C
Density	2.1 - 2.2 kg/litre for finished screed

TECHNICAL INFORMATION

Compressive Strength	60 - 70 N/mm ²
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Tensile Strength	6 - 8 N/mm ²
Tensile Adhesion Strength	> 1.5 N/mm ² (Concrete Failure)

SYSTEM INFORMATION

Systems	Coating System	Product	Coverage
	1. Priming coat	Sikafloor®-91 (Comp. A+B)/Sikafloor®-94	0.2 - 0.3 kg/m ² (depending on condition of substrate)
	OR alternative priming coat	Sikafloor®-91 (Comp. A+B+Extender T)/Sikafloor®-94 + Extender T	0.3 - 0.4 kg/m ² (depending on condition of substrate)
	2. Mortar screed	Sikafloor®-91 (Comp. A+B+C) 5-8 mm applied thickness	11 - 18 kg/m ²

APPLICATION INFORMATION

Mixing Ratio	Flooring Screed:	1:10 mix		
	Comp. A, natural	2.00		
	Comp. B	1.00		
	Comp. C (Sika® Aggregate-506) parts by weight	30		
Substrate Temperature	Substrate temperature must be 3°C above measured dew-point			
Substrate Moisture Content	< 4%			
Pot Life	10°C	20°C	30°C	
	60 min.	45 min.	20 min.	
Curing Time		10°C	20°C	30°C
	Can be walked on after:	36 hrs.	24 hrs.	12 hrs.
	Light mechanical loading possible after:	3 days	2 days	2 days
	Fully cured after:	10 days	7 days	5 days

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.

ECOLOGY HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

- The substrate must be sound, dry (max. moisture content 4%), free from dust, dirt and any surface contaminants such as oil, grease, fats, chemicals, paints, curing membranes, etc. Surface damage or holes should be repaired with the appropriate Sikadur® or EpoCem® epoxy mortar.
- All surfaces should be primed with Sikafloor®-91 Part A+B or Sikafloor®-94 Primer (refer separate data sheet for further information) prior to the application of Sikafloor®-91.
- Substrates with a moisture content above 4% should be sealed with Sikagard®-720 EpoCem® or Sikafloor®-81 EpoCem®. This will allow the application of Sikafloor®-91 to proceed on damp surfaces. Refer to separate data sheets for further information on EpoCem® products. Cement based surfaces (other than those covered with EpoCem®) should be at least 3 - 4

weeks old and should be prepared by shot/sand blasting, acid etching, high pressure water blasting, etc to remove cement laitance.

- Sikafloor®-91 is a screeded mortar product and as such will reprofile irregular substrates, so reprofiling of surface defects should not be necessary prior to the application of the Sikafloor®-91 screed.

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. Place the correctly batched quantity of Component (C) in the mixer (forced action type). Add the prepared resin mix (Components A+B) while the mixer is running, and continue to mix until a homogeneous and uniformly moist mix is obtained.

APPLICATION

Place the Sikafloor®-91 mixture while the primer coat is still tacky, and rake out evenly. Level with a beam laid across steel screeding rails and finish with a steel float.

CLEANING OF TOOLS

- Clean all tools and equipment immediately after use with Sika Thinner C (NZ).
- Once hardened, the material can only be removed mechanically.
- Wash soiled hands and skin thoroughly in hot soapy water.

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.

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.

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Product Data Sheet

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