

PRODUCT DATA SHEET

Sikafloor®-291

3-component epoxy self-smoothing underlay screed

DESCRIPTION

Sikafloor®-291 is a three part, fine textured self smoothing underlay and levelling screed.

USES

Sikafloor®-291 is a construction products which only should be applied by trained applicators.

As a self-smoothing screed for:

- Levelling layer under Epoxy, Polyurethane and PMMA* floor coatings / screeds, tiles, sheet floors, carpets or wooden floors.
- Floor topping without particular aesthetic requirements.

FEATURES

- Economical
- Fast and easy application
- Good levelling properties
- Good chemical resistance
- Good early and final mechanical strengths
- Ideal preparation for smooth surface finishes
- Contains no solvents

PRODUCT INFORMATION

Packaging	Pre-batched 164 kg units. Part A: 8.00 kg container Part B: 20.0 kg container Part C: 34.0 kg plastic lined bag x 4
Appearance and colour	Part A - resin: white liquid Part B - hardener: yellowish liquid Part C - filler: off white, powder Mixed colour: light yellow Finish: fine textured, matt
Shelf life	12 months for component A&B 09 months for component C from date of production
Storage conditions	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +35 °C.
Density	Part A: ~ 1.05 kg/l (at +20°C) Part B: ~ 1.03 kg/l (at +20°C) Part C: ~ 1.72 kg/l (at +20°C) Parts A+B+C mixed: ~ 2.2 kg/l (at +20°C)

((EN 1015-6))

TECHNICAL INFORMATION

Abrasion resistance	~ 0.7 mm thickness loss	(According to IS 1237 – 1980 and IS 9162 - 1979)
Compressive strength	~ 60 N/mm ² (28 days / +27°C)	(According to IS 9162-1979)
Flexural-strength	~ 18 N/mm ² (28 days / +27°C)	(According to IS 9162-1979)
Tensile adhesion strength	> 1.5 N/mm ² (failure in concrete)	(According to ISO 4624)
Chemical resistance	The Sikafloor® -291 has improved chemical resistance over plain concrete in aggressive environments, but is not designed as a chemical protection. For specific chemical resistance, always overcoat with a suitable product of the Sikafloor® range. For occasional exposure or spillages, please consult.	
Service temperature	-30°C to +80°C for continuous exposure.	

APPLICATION INFORMATION

Mixing ratio	Part A : Part B : Part C = 1 : 2.5 : 17 (by weight)		
Consumption	Coating System	Product	Consumption
	Primer	Sikafloor®-290 Primer	0.2 – 0.3 kg/m ²
	Underlay / levelling screed (1.5 mm to 3 mm)	Sikafloor®-291	2.2 kg/mm/m ²
	Topping (optional)	Sikafloor® range	See PDS
	These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level or wastage, etc.		
Layer thickness	1.5 mm min. / 3.0 mm max.		
Ambient air temperature	+8°C min. / +30°C max.		
Relative air humidity	80% max.		
Dew point	Beware of condensation! The substrate and uncured floor temperature must be at least 3°C above the dew point to reduce the risk of condensation or blooming on the floor finish.		
Substrate temperature	+8°C min. / +30°C max.		
Substrate moisture content	≤ 4% moisture content. Test method: Sika® Tramex moisture meter, CM measurement or Oven-dry method. No rising moisture according to ASTM (PE sheet test).		
Pot Life	20.5 kg mass		
	Temperature / r.h. 75%		Time
	+10°C		~ 40 minutes
	+20°C		~ 20 minutes
	+30°C		~ 10 minutes
Waiting time to overcoating	Before applying Sikafloor®-291 on Sikafloor®-290 Primer allow:		
	Substrate temperature	Waiting time(Minimum)	Waiting time(Maximum)
	+10°C	12 hours	72 hours
	+20°C	6 hours	48 hours
	+30°C	4 hours	24 hours
	Sikafloor®-291 can be overcoated with vapour tight coatings when the surface humidity falls below 4%! Not earlier than:		

Substrate temperature	Waiting time
+10°C	2 days
+20°C	1 day
+30°C	1 day

Note: Successive coats of Sikafloor®-291 must be applied after priming with Sikafloor®-290 Primer and allowing at least the minimum times indicated above between applications.

Times are approximate at 75% r.h. and will be affected by changing ambient and substrate conditions, particularly temperature and relative humidity.

Applied product ready for use	Temperature	Foot traffic	Light traffic	Full cure
	+10°C	~ 24 hours	~ 3 days	~ 14 days
	+20°C	~ 15 hours	~ 2 days	~ 7 days
	+30°C	~ 7 hours	~ 1 day	~ 4 days

Note: Times are approximate and will be affected by changing ambient and substrate conditions.

SYSTEM INFORMATION

Systems	Underlay / levelling screed for medium substrate roughness: Layer thickness: 1.5 - 3 mm Primer: Sikafloor®-290 Primer Screed: Sikafloor®-291 Topping: Sikafloor® range (optional)
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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

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

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.

Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface.

Weak concrete must be removed and surface defects such as blow holes and voids must be fully exposed.

Repairs to the substrate, filling of blowholes/voids and surface levelling must be carried out using appropriate products from the Sikafloor®, Sikadur® and Sikagard® range of materials.

High spots can be removed by grinding.

All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush or vacuum.

MIXING

Prior to mixing, shake part A and part B briefly until homogenous, then pour both parts into the mixing container and mix thoroughly for 3 minutes until a uniform mix has been achieved.

Gradually add part C while stirring with a power mixer. Mix thoroughly for 3 minutes until a uniform mix has been achieved.

Mix using a slow speed electric mixer (300 - 400 rpm) with helical paddle or other suitable equipment.

Recommended are single or counter rotating double mortar (basket type) and forced action (pan type) mixers. Free fall mixers must not be used.

APPLICATION

Place mixed Sikafloor®-291 onto the primed substrate and spread evenly to the required thickness uniformly with a rubber or metal trowel or spatula and immediately roll with a spike roller to remove entrapped air and obtain an even thickness layer.

Do not use additional water, which would disturb the

surface finish and cause discolouration.

A seamless finish can be achieved if a 'wet' edge is maintained during application.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with water immediately after use.

Hardened / cured material can only be removed mechanically.

MAINTENANCE INSTRUCTIONS

CLEANING

Due to the texture of its surface, Sikafloor®-291 is not suitable to be used as wearing layer where easy staining can occur. A seal coat of the Sikafloor® range with suitable cleaning capabilities is advisable.

Remove dirt using a brush and/or vacuum. Do not use wet cleaning methods until the product is fully cured.

Do not use abrasive methods or cleaners.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

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.

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