BUILDING TRUST

PRODUCT DATA SHEET

Sikafloor® BC 921

Two-part, solvent-free, self-smoothing floor coating with low emission based on Xolutec technology.

PRODUCT DESCRIPTION

Sikafloor® BC 921 is a two-part, solvent-free, pre-filled and pigmented, self-smoothing body-coat based on Xolutec technology.

USES

Sikafloor® BC 921 is applied indoors as a self-smoothing coating and suitable for heavy industrial wear. Sikafloor® BC 921 is applied to substrates such as concrete and cement screeds.

CHARACTERISTICS / ADVANTAGES

- Exhibits excellent mechanical and chemical resistance.
- Application as self-smoothing body coat on smooth or broadcasted surfaces, and as topcoat on broadcasted surfaces
- Short recoating interval.
- Very fast strength development and short return to service time.
- Low emission
- Excellent abrasion, wear, scratch and impact resistance.
- High traffic resistance.
- Very easy to clean and maintain.
- Very low dirt pick-up.
- Very high chemical resistance.
- Sikafloor® BC 921 yellows under UV light exposure not affecting the technical properties. Yellowing can be avoided with the application of Sikafloor® TC 943 on top.

APPROVALS / STANDARDS

CE marking and declaration of performance based on EN 13813:2002 Screed material and floor screeds — Screed material — Properties and requirements — Synthetic resin screed material

PRODUCT INFORMATION

Packaging	Sikafloor® BC 921 is supplied in 28,24 kg working packs (18,24 kg for part A + 10 kg for part B).	
Colour	Sikafloor® BC 921 is available in light grey, dark grey and ochre.	
Shelf Life	Under the specified storage conditions the material has a shelf life of 12 months. For maximum shelf life under these conditions, see „Best before“ label.	
Storage Conditions	Store in original drums under dry conditions and a temperature between 15-25°C. Do not expose to direct sunlight and prevent the temperature from falling below the abovementioned range.	
Density	Part A at 20°C	approx. 1,75 g/cm³
	Part B at 20°C	1,20 g/cm³
	Mixed product at 20°C	approx. 1,5 g/cm³

TECHNICAL INFORMATION

Shore D Hardness	Cured 7 days at +23°C	80	(EN ISO 868)

APPLICATION INFORMATION

Mixing Ratio	100 : 55	
Consumption	As self-smoothing body coat with smooth finish: 2,4 kg/m² As self-smoothing body coat with antislip finish before broadcasting: 1,5 kg/m² As topcoat with antislip finish: approx. 0,6 – 0,8 kg/m²	
Ambient Air Temperature	Min.	10°C
	Max.	30°C
Relative Air Humidity	not restricted, but no condensation of water on the surface	
Substrate Temperature	Min.	10°C
	Max.	30°C
Pot Life	at 12°C	20 min.
	at 23°C	15 min.
	at 30°C	10 min.

Curing Time	Tempeature	Ready for light traffic	Fully cured
	at 10°C	12 h	5 d
	at 23°C	10 h	3 d
	at 30°C	8 h	2 d

Waiting Time / Overcoating	Temperature	Minimum	Maximum
	at 10°C	10 h	48 h
	at 23°C	7 h	36 h
	at 30°C	5 h	24 h

VALUE BASE

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.

Regulation (EC) No 1907/2006 (REACH) - Mandatory training

As from 24 August 2023 adequate training is required before industrial or professional use of this product. For more information and a link to the training visit www.sika.com/pu-training.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

Sikafloor® BC 921 must be applied to primed or scratch primed substrate. The substrate must be load bearing, free of loose and brittle particles as well as substances, which impair adhesion such as oil, grease, rubber skid marks, paint or other contaminants. Pre-treatment is only necessary when the re-coating interval of the primer has been exceeded. If necessary, the primer must be renewed. After surface preparation the tensile strength of the substrate should exceed 1.5 N/mm² (check with an approved pull-off tester i.e. "Herion" at a load rate of 100 N/s). the residual moisture content of the substrate must not exceed 4% (check with e.g. CM device). The temperature of the substrate must be at least 3K above the current dew point temperature. A dampproof course must have been properly installed and intact. In addition to this, the respective guidelines for the application of reactive resins on substrates have to be followed.

MIXING

Sikafloor® BC 921 is supplied in working packs which are pre-packaged in the exact ratio. Before mixing, precondition both A and B components to a temperature of approximately 15 to 25°C. Pre-mix part A. Pour the entire contents of part B into the container of part A. DO NOT MIX BY HAND. Mix with a double paddle mixer at high speed (ca. 600 rpm) for 90 seconds. Use always the same mixing time and mixing speed. Keep the mixer blades submerged in the coating to avoid introducing air bubbles. DO NOT WORK OUT OF THE ORIGINAL CONTAINER.

APPLICATION

After mixing pour the whole content of the bucket immediately on the surface. Sikafloor® BC 921 is applied to the prepared substrate, using a notched trowel or scraper. The teeth size should be selected according to the thickness of layer required. Do not exceed the max. recommend coverage rate. To remove air bubbles, spike roll directly after application.

The curing time of the material is influenced by the ambi-ent, material and substrate temperatures. At low temperatures, the chemical reactions are slowed down; this lengthens the pot life, open time and curing times. High temperatures speed up the chemical reactions thus the time frames mentioned above are shortened accordingly. To fully cure, the material, substrate and application temperature should not fall below the minimum. After application, the material should be protected from direct contact with water for approx. 24h (at 20°C). Apart from these limitations, the respective guidelines for this use of reactive resins in the concrete trade must be observed.

CLEANING OF TOOLS

Clean all tools and application equipment with Sika® Thinner C immediately after use. Hardened material can only be removed mechanically.

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.

SIKA LIMITED
Watchmead
Welwyn Garden City
Hertfordshire, AL7 1BQ
Tel: 01707 394444
Web: www.sika.co.uk
Twitter: @SikaLimited