

PRODUCT DATA SHEET

Sikafloor® BC 921

(formerly MTop BC 921)

2-part, coloured, Xolutec, floor coating with low VOC emissions

DESCRIPTION

Sikafloor® BC 921 is a two-part, low VOC emission, coloured floor coating based on Xolutec technology. It provides a hard wearing surface with very good chemical and mechanical resistance.

USES

Sikafloor® BC 921 is used as a:

- Self-smoothing and slip resistant wearing layer on concrete and cementitious screed substrates
- Seal coat or top coat for slip-resistant broadcast systems

Please note:

- The Product may only be used by experienced professionals.
- The Product may only be used for interior applications.

CHARACTERISTICS / ADVANTAGES

- Very good resistance to specific chemicals
- Very good mechanical resistance
- Good resistance to abrasion

- Low VOC emissions
- Good bond strength
- Easy to clean
- Low maintenance
- Easy application

ENVIRONMENTAL INFORMATION

- Environmental Product Declaration (EPD) in accordance with EN 15804. EPD independently verified by Institut für Bauen und Umwelt e.V. (IBU)

CERTIFICATES AND TEST REPORTS

- 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
- CE marking and declaration of performance based on EN 1504-2:2004 Products and systems for the protection and repair of concrete structures — Surface protection systems for concrete — Coating

PRODUCT INFORMATION

Composition	Xolutec technology	
Packaging	Container Part A	18.24 kg
	Container Part B	10 kg
	Container Part A + Part B	28.24 kg ready to mix unit
	Refer to the current price list for available packaging variations.	
Colour	Part A	Coloured
	Part B	Transparent
	Cured colour	Light grey, dark grey and ochre.
Shelf Life	12 months 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 +30 °C. Always refer to the packaging.
Refer to the current Safety Data Sheet for information on safe handling and storage.

Density	Mixed Product	1.5 kg/l	(EN ISO 2811-1)
	Part A	1.75 kg/l	
	Part B	1.2 kg/l	
Colour	Part A	Liquid	
	Part B	Liquid	

TECHNICAL INFORMATION

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

Mixing Ratio	Part A : Part B (by weight)	64.5 : 35.5
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Consumption	Wearing layer with smooth finish	2.4 kg/m ²
	Wearing layer with slip-resistant finish before broadcasting	1.5 kg/m ²
	Top coat to a broadcast finish	0.6–0.8 kg/m ²

Product Temperature	Maximum	+30 °C
	Minimum	+10 °C

Ambient Air Temperature	Maximum	+30 °C
	Minimum	+10 °C

Dew Point	Beware of condensation. The substrate and uncured applied product must be at least +3 °C above dew point to reduce the risk of condensation on the surface of the applied product.
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Substrate Temperature	Maximum	+30 °C
	Minimum	+10 °C

Substrate Moisture Content	Substrate	Test method	Moisture content
	Cementitious substrates	Calcium carbide method (CM method)	≤ 4 %
	No rising moisture (ASTM D4263, polyethylene sheet)		

Pot Life	+10 °C	20 minutes
	+20 °C	15 minutes
	+30 °C	10 minutes

Waiting Time / Overcoating	Before overcoating the Product, allow:		
	Temperature	Minimum	Maximum
	+10 °C	10 hours	48 hours
	+20 °C	7 hours	36 hours
	+30 °C	5 hours	24 hours

Note: Times are approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity.

Applied Product Ready for Use

Temperature	Light traffic	Full cure
+10 °C	12 hours	5 days
+20 °C	10 hours	3 days
+30 °C	8 hours	2 days

Note: Times are approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity.

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.

FURTHER INFORMATION

Refer to the following method statements:

- Sika Method Statement — Evaluation and preparation of surfaces for flooring systems
- Sika Method Statement — Sikafloor® mixing and application

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 PREPARATION

IMPORTANT

Reduced service life due to incorrect treatment of cracks

The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.

1. For static cracks, ensure the width is suitable for overcoating with Sikafloor® BC 921.
2. For dynamic cracks, ensure the movement is within the movement capacity of Sikafloor® BC 921.

TREATMENT OF JOINTS AND CRACKS

Construction joints and existing static surface cracks in substrate require pre-treating before full layer application. Use Sikadur® or Sikafloor® resins.

IMPORTANT

Maximum slope gradient

Do not apply on substrates with a slope gradient > 1 %.

SUBSTRATE CONDITION

Cementitious substrates must be structurally sound and of sufficient compressive strength (minimum 25 N/mm²) with a minimum tensile strength of 1.5 N/mm².

Substrates must be clean, dry and free of contaminants such as dirt, oil, grease, coatings, laitance, surface treatments and loose friable material.

MECHANICAL SUBSTRATE PREPARATION

IMPORTANT

Surface defects due to voids in the substrate

Voids and blow holes in the substrate will weaken the surface and damage the covering Product if not repaired during the preparation process.

1. Fully expose blow holes and voids during surface preparation to identify the required repairs.
2. Remove weak cementitious substrates.
3. Prepare cementitious substrates mechanically using abrasive blast cleaning, abrasive planing or scarifying equipment to remove cement laitance.
4. Where thin layer resins are going to be applied, remove high spots by grinding.
5. Remove all dust, loose and friable material from the application surface with industrial vacuuming equipment.
6. Level the surface or fill cracks, blow holes and voids with products from the Sikafloor®, Sikadur® and Sikagard® range of materials.

For additional information on products for leveling and repairing defects, contact Sika® Technical Services.

SUBSTRATE PREPARATION OF NON-CEMENTITIOUS SUBSTRATES

For information on substrate preparation of non-cementitious substrates, contact Sika® Technical Services.

MIXING

SEAL COAT

1. Prior to mixing all parts, mix Part A (resin) using an electric single paddle mixer. Mix liquid until a uniform mix has been achieved.
2. Add Part B (hardener) to Part A.
3. **IMPORTANT** Do not mix excessively. Mix Part A + B continuously for ~3 minutes until a uniform mix is achieved.
4. To ensure thorough mixing, pour materials into another container and mix again to achieve a smooth and uniform mix.
5. During the final mixing stage, scrape down the sides and bottom of the mixing container with a flat or straight edge trowel at least once to ensure complete mixing.

SELF-SMOOTHING SCREED

1. Prior to mixing all parts, mix Part A (resin) using an electric single paddle mixer. Mix liquid until a uniform mix has been achieved.
2. Add Part B (hardener) to Part A.
3. **IMPORTANT** Do not mix excessively. Mix Part A + B continuously for ~2 minutes until a uniformly coloured mix is achieved.
4. Add the quartz sand and mix for a further 2 minutes until a uniform mix has been achieved.
5. To ensure thorough mixing, pour materials into another container and mix again to achieve a smooth and uniform mix.
6. During the final mixing stage, scrape down the sides and bottom of the mixing container with a flat or straight edge trowel at least once to ensure complete mixing.
7. Leave the Product to stand for 3 minutes before application.

APPLICATION

IMPORTANT

Protect from moisture

After application, protect the Product from damp, condensation and direct water contact for at least 24 hours.

IMPORTANT

Damaged finish due to heating with fossil fuel heaters

Fossil fuel heaters powered by gas, oil or paraffin produce large quantities of both carbon dioxide and water vapour, which may adversely affect the finish.

1. For temporary heating, use only electrically powered warm air blower systems. Do not use gas, oil, paraffin or other fossil fuel heaters.

SELF-SMOOTHING WEARING LAYER APPLICATION

1. Pour the mixed Product onto the substrate. Note For consumption, refer to Application Information.
2. Apply the Product evenly over the surface with a serrated trowel.
3. Back-roll the surface in two directions at right angles with a spike roller. Note Maintain a "wet edge" during application to achieve a seamless finish.

SEAL COAT FOR BROADCAST SURFACES

1. Pour the mixed Product onto the substrate. Note For consumption, refer to Application Information.
2. Spread the Product evenly over the surface with a squeegee.
3. Back-roll the surface in two directions at right angles with a fleece roller. Note Maintain a "wet edge" during application to achieve a seamless finish.

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.

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Product Data Sheet

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