

PRODUCT DATA SHEET

Sikafloor® BC 372

(formerly MTop BC 372)

Two-part, solvent-free (total solid), epoxy self-smoothing floor coating with low emissions (AgBB conformity)

PRODUCT DESCRIPTION

Sikafloor® BC 372 is a two-part, solvent-free, pre-filled and pigmented, self-smoothing epoxy coating.

USES

Sikafloor® BC 372 is applied indoors as a self-smoothing coating and suitable for medium to heavy industrial wear. Sikafloor® BC 372 is applied to substrates such as concrete and cement screeds. Sikafloor® BC 372 can be filled with sand up to 1 : 0.7 by weight depending on the temperature and the applying thickness you require on the job site.

CHARACTERISTICS / ADVANTAGES

- exhibits excellent mechanical strength
- application as self-smoothing body coat on smooth surfaces and as top coat on broadcasted surfaces
- low emissions: AgBB conform
- extremely resistant if exposed for medium to heavy industrial wear
- abrasion resistant
- easy to apply
- easy to clean and maintain

- extremely resistant to water, sea and waste water, as well as resistant to a variety of alkalis, diluted acids, brine, mineral oils, lubricants and fuels.
- yellowing, when used in UV-exposed areas, does not impair the technical properties of the body coat (the application of a pigmented top coat like Sikafloor® TC 442W P is recommended to prevent the yellowing of the surface and to improve the scratch resistance)

ENVIRONMENTAL INFORMATION

Sikafloor® BC 372 is registered in the DGNB (German Sustainable Building Council) Navigator platform and exhibits a DGNB Navigator label. The DGNB Navigator Label provides all the required information about our flooring products (product profiles) to build DGNB certified projects.

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

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

Packaging

Sikafloor® BC 372 is supplied in 30 kg working packs. Supply in drums possible (only on demand).

Colour

Sikafloor® BC 372 is available in a wide range of RAL colours.

Shelf Life

Under the specified storage conditions the material has a shelf life of 24 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 (crystallisation).		
Density	Part A at 23°C	1,70 g/cm ³	(EN ISO 2811-1)
	Part B at 23°C	1,02 g/cm ³	
	Mixed product at 23°C	1,60 g/cm ³	

TECHNICAL INFORMATION

Shore D Hardness	Cured 7 days at +23°C	81	(EN ISO 868)
Abrasion Resistance	Cured 28 days at +23°C	28 mg (CS10 / 1000g / 1000 cycles)	(EN ISO 5470-1)
Compressive Strength	Cured 28 days at +23°C	79 N/mm ²	(EN 12190)

APPLICATION INFORMATION

Mixing Ratio	100 : 18		
Consumption	As self-smoothing body coat on smooth surfaces: Approx. 3,3 – 5,0 kg/m ² depending on the filling ratio (total consumption including sand, filling ratio between 1:0,5 and 1:0,7 with quartz sand 0,1-0,3 mm). As top coat on broadcasted surfaces: approx. 0,8 - 1,0 kg/m ² (application with a roll without sand filling) depending on the system and the roughness of the surface.		
Ambient Air Temperature	Min.	10°C	
	Max.	30°C	
Relative Air Humidity	Max.	75%	
Substrate Temperature	Min.	10°C	
	Max.	30°C	
Pot Life	At 23°C	30 min	
Waiting Time / Overcoating	Temperature	Minimum	Maximum
	at 10°C	30 h	3 days
	at 23°C	10 h	2 days
Applied Product Ready for Use	at 23°C	5 days	

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.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

Sikafloor® BC 372 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 damp-proof 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 372 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.

Pour the entire contents of part B into the container of part A. **DO NOT MIX BY HAND.** Mix with a mechanical drill and paddle at a very low speed (ca. 300 rpm) for at least 3 minutes. Scrape the sides and the bottom of the container several times to ensure complete mixing. Keep the mixer blades submerged in the coating to avoid introducing air bubbles. **DO NOT WORK OUT OF THE ORIGINAL CONTAINER.** After proper mixing to a homogeneous consistency pour the mixed parts A and B into a fresh container and mix for another minute.

APPLICATION

After mixing, Sikafloor® BC 372 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 (take care not to exceed max. recommend coverage rate). To remove air bubbles, spike roll directly after application. On broadcasted surfaces, Sikafloor® BC 372 will be applied with a roll.

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Sikafloor® BC 372 can be thickened by adding Sika® Extender T in part A and mixing for 2 minutes. Then pour the part B and follow the "application method" as previously described. In that case, Sikafloor® BC 372 will be applied on the floor with notched trowel and structured roll.

The curing time of the material is influenced by the ambient, 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). Within this period, contact with water can cause a surface bloom and/or surface tackiness, both of which must be removed. Carbamate has a marked effect of the coating and has to be removed. 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.

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