BUILDING TRUST

PRODUCT DATA SHEET

Sikafloor® BC 375 NAS

(formerly MTop BC 375NAS)

Two-part, pigmented, anti-static, solvent-free, low emission, self-smoothing PU coating with crack bridging properties

PRODUCT DESCRIPTION

Sikafloor® BC 375 NAS is an anti-static, solvent-free, low emission, pre-filled, two-part self-smoothing polyurethane floor coating.

USES

Sikafloor® BC 375 NAS is used indoor when an anti-static floor coating for light to medium traffic is required. Sikafloor® BC 375 NAS is suitable for applications to mineral substrates such as concrete or cement mortar floor screeds, which have been primed with a two-part EP primer, laid with copper strips and primed with the conductive primer.

CHARACTERISTICS / ADVANTAGES

- low emission according to AgBB
- conductive floor coating
- static crack bridging properties
- exhibits excellent mechanical and anti-static properties
- good abrasion resistance
- easy to clean and maintain
- yellowing, when used in UV-exposed areas, does not impair the technical properties of the body coat

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 375 NAS is supplied in 30 kg working packs. Note: Please note that the part A of Sikafloor® BC 375 NAS is the same as Sikafloor® BC 375 N part A. The conductive fibres are included in part B.
Shelf Life	Under the specified storage conditions the material has a shelf life of 18 months. For maximum shelf life under these conditions, see “Best before” label.
Storage Conditions	Store in original drums, under dry conditions and a temperature ranging from 15 - 25°C. Do not expose to direct sunlight and keep the temperature within the abovementioned range.
Colour	Sikafloor® BC 375 NAS is available in a wide range of RAL colours. For more information, please consult your local sales office. Note: Aromatic polyurethanes as Sikafloor® BC 375 NAS tend under UV influence (in indoor and outdoor areas) to yellowing.

Density	Part A	1,51 g/cm³
	Part B	1,22 g/cm³
	Mixed product	1,45 g/cm³

TECHNICAL INFORMATION

Shore D Hardness	Cured 28 days at +23°C	70	(EN ISO 868)
Electrostatic Behaviour	Resistance to ground	10^4 - 10^6 ohm	(EN 1081)

APPLICATION INFORMATION

Mixing Ratio	100 : 22	
Consumption	Approx. 2,0 – 2,5 kg/m² The consumption may not be below or over the above value to ensure the conductivity. If necessary, the substrate must be pre-levelled.	
Ambient Air Temperature	Min. at 23°C	5°C
	Max. at 23°C	30°C
Relative Air Humidity	Max.	75%
Substrate Temperature	Min. at 23°C	5°C
	Max. at 23°C	30°C
Pot Life	At 23°C	30 min.
Curing Time	At 23°C	7 d
Waiting Time / Overcoating	Min. at 23°C	16 h
	Max. at 23°C	3 d

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 375 NAS must be applied to substrates primed with the conductive primer Sikafloor ® P 687´W AS. 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 conductive layer has been exceeded. If necessary, the conductive layer 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 has to be installed and must be intact.

MIXING

Sikafloor® BC 375 NAS is supplied in working packs, which are pre-packaged in the exact ratio. The part A is the same as Sikafloor® BC 375 N. The part B contains the conductive fibres. Therefore, you have to use Sikafloor® BC 375 N part A and Sikafloor® BC 375 NAS part B. Pay attention to use Sikafloor® BC 375 NAS part B. Before mixing, precondition both A and B components to a temperature of approximately 15 to 25°C. Mix first the part B separately in order to ensure the homogeneity of the conductive fibers. Pour the entire contents of part B into the container of part A. It is important to ensure that the component B completely runs out with the conductive fibers. If necessary, part B must be scratched out with the last conductive fibers.
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.

APPLICATION

After proper mixing to a homogeneous consistency pour the mixed parts A and B into a fresh container and mix for another minute. After mixing, Sikafloor® BC 375 NAS is applied to the substrate coated with the conductive primer Sikafloor® P 687 W AS, using a notched trowel or scraper. The tooth size should be selected according to the required layer thickness (take care not to go below min. recommend coverage rate or to exceed max. recommend coverage rate, this has a direct influence on the anti-static values). To remove air bubbles, spike roll 5-10min. after application.
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, the substrate and the 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 of Sikafloor® P 687 W AS has an effect on the conductivity of the coating and has to be removed.
After mixing, Sikafloor® BC 375 NAS is applied to the substrate coated with a primer, using a notched trowel or scraper. The tooth size should be selected according to the required layer thickness (take care not to go below min. recommend coverage rate or to exceed max. recommend coverage rate). To remove air bubbles, spike roll 5-10min. after application.
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, the substrate and the 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.

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