

PRODUCT DATA SHEET

Sikafloor® BC 325 N

(formerly MTop BC 325N)

2-PART-POLYURETHANE, ELASTIC, SELF-SMOOTHING, LOW-VOC, SOUND ABSORBING

DESCRIPTION

Sikafloor® BC 325 N is a two component, non-solvent and low emission, self-levelling polyurethane floor coating.

USES

Sikafloor®-BC 325 N may only be used by experienced professionals.

- Hospitals
- Schools
- Libraries
- Offices
- Cafeterias and canteens
- Shops and supermarkets

CHARACTERISTICS / ADVANTAGES

- Very low emission according to AgBB
- Soft and elastic
- High degree of walking comfort
- Sound absorbing
- Hard wearing
- Crack bridging
- Easy to apply
- Excellent self-levelling properties
- Easy to apply
- Can be applied to asphalt and other substrates
- Easy to maintain surface and a tolerance to a wide range of cleaners and mild chemicals

APPROVALS / STANDARDS

CE marking and declaration of performance based on EN 13813:2002 Screed material and floor screeds – Synthetic Screed material. Coating for surface protection of concrete according to EN 1504-2:2004, certified by notified factory production control certification body 2184 and provided with the CE marking.

PRODUCT INFORMATION

Chemical Base	2.0 – 3.5 kg/m ²	
Packaging	Part A	23.3 kg containers
	Part B	6.7 kg containers
	Part A+B	30.0 kg ready to mix units
Colour	Sikafloor® BC 325 N is available in a wide range of RAL colours. For more information, please consult your local sales office.	
Shelf Life	Under the specified storage conditions the material has a shelf life of 6 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.

Density	Part A	1.32 g/cm³
	Part B	1.22 g/cm ³
	Mixed product	1.29 g/cm ³
Viscosity	Part A	5,400 mPas
	Part B	200 - 360 mPas
	Mixed product	1,800 mPas

TECHNICAL INFORMATION

Shore A Hardness	~ 80 (7 Days/+ 23 C /50% r.h.)	DIN 51504
Tensile Strength	7.0 N/mm ²	DIN 51504
Chemical Resistance	Fully cured/ready for exposure to chemicals: 7 days / 23°C	

APPLICATION INFORMATION

Mixing Ratio	3.5 : 1 (by weight)	
Ambient Air Temperature	Minimum	+10 °C
	Maximum	+30 °C
Relative Air Humidity	at 10°C	75%
	at T > 23°C	85%
Dew Point	Beware of condensation. The substrate and uncured applied floor material must be at least +3 °C above dew point to reduce the risk of condensation or blooming on the surface of the applied product. Low temperatures and high humidity conditions increase the probability of blooming.	
Substrate Temperature	Minimum	+ 8°C
	Maximum	+ 30°C
Substrate Moisture Content	≤ 4 CM% for cementitious substrates	
Pot Life	~ 30 minutes / 23 °C	
Open Time	7 Days / 23 °C	
Applied Product Ready for Use	Min.	12 h / 23°C
	Max.	48 h / 23°C

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 DOCUMENTS

Sikafloor® BC 325 N is supplied in working packs which are pre-packaged in the exact ratio. Before mixing, pre-condition 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. If Sikafloor® BC 325 N is to be extended with sand, the sand should be added to the mixed components under continuous mixing until uniformly distributed.

Sikafloor® BC 325 N is poured onto the prepared substrate and spread with a notched trowel, or spreader (rubber or steel). Bubbles should be removed by rolling with a spiked roller. 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. The temperature of the substrate must be at least 3K above the dew point both during the application and for at least 8 hours after application (at 15°C).

LIMITATIONS

Sikafloor® BC 325 N is physiologically nonhazardous in its cured condition. The following protective measures should be taken when working with the material: Avoid inhaling the fumes and contact with the skin. Wear safety gloves and goggles. When working with the product, do not eat, smoke or work near a naked flame! For additional references to safety-hazard, warnings, regulations regarding transport and waste anagement please refer to the relevant Material safety data sheet. The regulations of the local trade association and/or other authorities, regulating safely and hygiene of workers handling polyurethane and isocyanate must be observed.

ECOLOGY, HEALTH AND SAFETY

DIRECTIVE 2004/42/CE - LIMITATION OF EMISSIONS OF VOC

EU Regulation 2004/42 (Decopaint Guideline) This product conforms to the EU directive 2004/42/EG (Deco-Paint directive) and contains less than the maximum allowable VOC Limit (Stage 2, 2010). According to the EU directive 2004/42, the maximum allowable VOC content for the Product Category IIA / j type sb is 500 g/l (Limit: Stage 2, 2010). The VOC content for Sikafloor® BC 325 N is < 500 g/l (for the ready to use product).

SUBSTRATE PREPARATION

Sikafloor® BC 325 N must be applied to substrates primed with an epoxy or a polyurethane primer. 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.

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 3 K above the current dew point temperature. A damp proof cause must have been properly installed and intact. In addition, the guidelines relevant to the requirements for coating concrete substrates must be observed.

CLEANING

Re-usable tools must be cleaned carefully with a suitable thinner (Xylene / MEK / Acetone) or with solvent naphtha.

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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