BUILDING TRUST

PRODUCT DATA SHEET

Sikafloor®-320 N

Polyurethane elastic floor coating

DESCRIPTION

Sikafloor®-320 N is a two part, solvent free, elastic, self-smoothing polyurethane base layer resin. It is designed to provide acoustic insulation.

USES

Sikafloor®-320 N may only be used by experienced professionals.

The product is used as an elastic self smoothing base layer for the Sika ComfortFoor® range.
Please note:
- The Product may only be used for interior applications.

FEATURES

- Reduces footfall sound and contact noise
- Soft underfoot
- Good crack-bridging ability
- Good mechanical resistance
- High elasticity
- Very low VOC emissions

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

PRODUCT INFORMATION

Composition	Polyurethane	
Packaging	Container Part A	18.4 kg
	Container Part B	1.6 kg
	Container Part A + Part B	20 kg ready to mix units
	Refer to the current price list for available packaging variations.	
Shelf life	6 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 packaging. Refer to the current Safety Data Sheet for information on safe handling and storage.	
Appearance and colour	Part A	Dark grey-black, liquid
	Part B	transparent, liquid
	Cured colour	Dark grey-black

Density	Part A	~1.2 kg/l	(EN ISO 2811-1)
	Part B	~1.2 kg/l	
	Mixed Product	~1.25 kg/l	
Solid content by volume	~100 %		

TECHNICAL INFORMATION

Shore A hardness	Cured 14 days at 23 °C	~55	(EN ISO 868)
Tensile strength	Resin filled, stored 14 days at +23 °C and 50 % r.h.	~ 1.0 N/mm²	(EN ISO 527-2)
Tensile strain at break	Cured 14 days at +23 °C, tested at +23 °C	~70 %	(EN ISO 527-3)
Tensile adhesion strength	> 1.5 N/mm² (failure in concrete)		(EN 1542)
Tear strength	Cured 14 days at 23 °C	~ 11 N/mm	(ISO 34-1)

APPLICATION INFORMATION

Mixing ratio	Part A : Part B (by weight)	92 : 8
Consumption	Unfilled	~ 1.25 kg/m² per mm thickness
Material temperature	Maximum	+30 °C
	Minimum	+15 °C
Ambient air temperature	Maximum	+30 °C
	Minimum	+15 °C
Relative air humidity	Maximum	80 % r.h.
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.	
Substrate temperature	Maximum	+30 °C
	Minimum	+15 °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

+15 °C	~ 35 minutes
+20 °C	~ 25 minutes
+30 °C	~ 15 minutes

Waiting time to overcoating

Before overcoating the Product, allow:

Temperature	Minimum	Maximum
+15 °C	~24 hours	~3 days
+20 °C	~16 hours	~48 hours
+30 °C	~16 hours	~36 hours

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.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing 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

EQUIPMENT

MIXING EQUIPMENT
- Electric double paddle mixer (>700 W, 300 to 400 rpm)

APPLICATION EQUIPMENT
- Pin leveller
- Trowels, including serrated
- Spiked roller

SUBSTRATE QUALITY

IMPORTANT

Incorrect treatment of cracks

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

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.

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 all contaminants such as dirt, oil, grease, coatings, laitance, surface treatments and loose friable material.

Maximum slope gradient

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

SUBSTRATE PREPARATION

MECHANICAL SUBSTRATE PREPARATION

IMPORTANT

Exposing blow holes and voids

When mechanically preparing the surface, make sure to fully expose blow holes and voids.

1. Remove weak cementitious substrates.
2. Prepare cementitious substrates mechanically using abrasive blast cleaning or planing / scarifying equipment to remove cement laitance.
3. Before applying thin layer resins, remove high spots by grinding.
4. Use industrial vacuuming equipment to remove all dust, loose and friable material from the application surface before applying the Product.
5. Use products from the Sikafloor®, Sikadur® and Sikagard® range of materials to level the surface or fill cracks, blow holes and voids.

Contact Sika® Technical Services for additional information on products for levelling and repairing defects.

SUBSTRATE PREPARATION OF NON-CEMENTITIOUS SUBSTRATES

For information on substrate preparation of non-cementitious substrates, contact Sika technical services.

APPLICATION

IMPORTANT

Strictly follow installation procedures

Strictly follow installation procedures as defined in Method Statements, application manuals and working instructions which must always be adjusted to the actual site conditions.

IMPORTANT

Protect from moisture

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

IMPORTANT

Uncured material reacts with water

Uncured material reacts with water of any kind, which leads to foaming.

1. During the application, wear head and wrist bands to avoid sweat falling onto the uncured material.

IMPORTANT

No application on rising moisture

Do not apply on substrates with rising moisture.

IMPORTANT

Temporary heating

If temporary heating is required, do not use gas, oil, paraffin or other fossil fuel heaters. These produce large quantities of both carbon dioxide and water vapour, which may adversely affect the finish.

1. For heating, use only electric powered warm air blower systems.

IMPORTANT

Indentations

Under certain conditions, underfloor heating or high ambient temperatures combined with high point loading may lead to indentations in the resin.

SELF-SMOOTHING WEARING LAYER

1. Pour the mixed Product onto the substrate. Note The consumption is specified in Application Information.
2. Apply the Product evenly over the surface with a serrated trowel.
3. To achieve a smooth finish, smooth the surface with the flat side of a trowel.
4. Back roll the surface in two directions at right angles with a steel spike roller.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

LEGAL NOTES

Any information or suggestions for use concerning Sika's products, which we either in writing or orally have given buyers or end-users of the product, have been given in good faith based on our own experiences and based on approved praxis and the technological and scientific knowledge on the time of giving such suggestions and information, which are given without any type of guarantees, and which do not lead to any further responsibility from Sika Danmark A/S, besides what is stated in the sales agreement in question. The buyer or end-user should themselves investigate or otherwise make sure, that our products are suitable for the use in question and further make sure that the products are kept and used correct and in agreement with the published rules and considering the actual conditions in order to avoid damages or less satisfactory results. Any order is accepted and any deliverance is affected according to the general terms of sales and delivery from Sika Danmark A/S, which are considered known and accepted, and which could be handed out when asked for. Our catalogues are not up-dated automatically. The present product data sheet is only for use in Denmark. Values stated in the present product data sheet should be seen as recommended, unless stated otherwise.

Sika Danmark A/S
Hirsemarken 5
3520 Farum
Tlf. +45 48 18 85 85
www.sika.dk