

PRODUCT DATA SHEET

Sikafloor®-400 N Elastic

1-part highly elastic polyurethane coating

DESCRIPTION

Sikafloor®-400 N Elastic is a one part, highly elastic, solvent containing, moisture curing polyurethane resin coating.

USES

Sikafloor®-400 N Elastic may only be used by experienced professionals.

The Product is used as a:

- Smooth and slip resistant coating on concrete and cementitious screed substrates

The Product is used on the following substrates:

- Concrete
- Cementitious screeds

Please note:

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

FEATURES

- Easy-to-use 1-part technology
- Good resistance to abrasion (under normal pedestrian use)
- Very good crack-bridging ability
- Good mechanical resistance
- High elasticity
- Good resistance to UV exposure
- Good protection and weather resistance
- Semi-gloss finish
- Impermeable to liquids

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	Polyurethane	
Packaging	6 kg or 18 kg Refer to the current price list for available packaging variations.	
Appearance and colour	Appearance and colour Cured colour	Coloured liquid Almost unlimited choice of colour shades.
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 +25 °C. Always refer to packaging. Refer to the current Safety Data Sheet for information on safe handling and storage.	
Density	~ 1.6 kg/l	(EN ISO 2811-1)
Solid content by mass	~ 88 %	(EN ISO 3251)
Solid content by volume	~ 77 %	(EN ISO 3251)

TECHNICAL INFORMATION

Abrasion resistance	Cured 7 days at +23 °C	30 mg (CS 10 / 1000 / 1000)	(EN ISO 5470-1)
Tensile strain at break	Tested at +23 °C	~320 %	(DIN 53504)
	Tested at -20 °C	~70 %	
Chemical resistance	Resistant to many chemicals. Contact Sika technical service. Wine, coffee, some leaves and flower petals and similar materials may cause surface discolouration. This will have no effect on the product performance and durability. Use Sikafloor®-410 for improved cleanability and resistance to contamination.		
Service temperature	Short term, maximum 8 hours	+100 °C	
	Short term, maximum 7 days	+80 °C	
	Permanent	+50 °C	

APPLICATION INFORMATION

Consumption	Type of application	Product	Consumption
	Light coating	Sikafloor®-400 N Elastic + (optional) 10 % by weight Sika® Thinner C	0.4-0.6 kg/m ²
	Coating	Sikafloor®-400 N Elastic	0.4–1.5 kg/m ²
	On inclined areas with a gradient of up to 4 %	Sikafloor®-400 N Elastic	~1 kg/m ²
	Vertical and inclined areas with a gradient of ≥ 4 %	Sikafloor®-400 N Elastic + 1.5–2 % Sika® Extender T	1.0–1.5 kg/m ²

Note: Optical colour variants Sikafloor-400 N Elastic can optionally be sprinkled with Sikafloor Colourchips.

Note: Consumption data is theoretical and does not allow for any additional material due to surface porosity, surface profile, variations in level, wastage or any other variations. Apply product to a test area to calculate the exact consumption for the specific substrate conditions and proposed application equipment.

Layer thickness	Refer to the relevant System Data Sheet	
Material temperature	Minimum	+10 °C
	Maximum	+30 °C
Ambient air temperature	Minimum	+10 °C
	Maximum	+30 °C
Relative air humidity	Maximum	80 %
	Minimum	35 % or 45 % at > + 20 °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.

Substrate temperature	Minimum	+10 °C		
	Maximum	+30 °C		
Substrate moisture content	Substrate	Test method	Moisture content	
	Cementitious substrates	Sika® Tramex moisture metre	≤ 6 %	
	Cementitious substrates	Calcium carbide method (CM-method)	≤ 4 %	
No rising moisture (ASTM D4263, polyethylene sheet)				
Pot Life	The material in opened containers should be applied immediately. As soon as the container is opened, surface film formation will happen within 1–2 hours. High temperatures and high air humidity will accelerate curing significantly.			
Waiting time to overcoating	Before overcoating the Product, allow:			
	Substrate temperature	Minimum	Maximum	
	+10 °C	~36 hours	~5 days	
	+20 °C	~24 hours	~3 days	
+30 °C	~16 hours	~2 days		
Note: Times are approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity. Times are also dependant on layer thickness.				
Applied product ready for use	Temperature (50 % r.h.)	Rain resistant	Foot traffic	Full cure
	+10 °C	~15 hours	~24–48 hours	~7–14 days
	+20 °C	~5 hours	~6–24 hours	~5–9 days
	+30 °C	~3 hours	~4–18 hours	~3–5 days
Note: Times are approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity. Times are also dependant on layer thickness.				

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

FURTHER DOCUMENTATION

- Sika® Method Statement: Evaluation and preparation of surfaces for flooring systems
- Sika® Method Statement: Mixing and application of flooring systems

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.

APPLICATION INSTRUCTIONS

IMPORTANT

Strictly follow installation and maintenance procedures

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

EQUIPMENT

APPLICATION EQUIPMENT

- Smoothing trowel
- Medium pile nylon roller
- Brush
- Squeegee

MIXING EQUIPMENT

- Electric single paddle mixer (300 to 400 rpm)

SUBSTRATE QUALITY

Cementitious substrates (concrete / screed) 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.

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 PREPARATION

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

PREPARATION OF MINERAL SUBSTRATES

Rough and uneven surfaces must be levelled. Alternatively apply a scratch coat of Sikafloor®-150/-151/-161/-156, see individual product data sheets for further information.

PREPARATION OF TILED SUBSTRATES

Apply Sikafloor®-81 EpoCem or remove the glaze by sandblasting.

MIXING

Note: Add any additional required products before you start mixing.

1. Before application, mix for at least 2 minutes or until the liquid and all the coloured pigment have achieved a uniform colour.

APPLICATION

IMPORTANT

No application on rising moisture

Do not apply on substrates with rising moisture.

IMPORTANT

Protect from moisture

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

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

Pin holes

If the Product is applied on porous substrates during rising temperatures, pin holes may form from rising air.

1. Apply the Product during falling temperatures.

IMPORTANT

Ensuring consistent colour matching

For consistent colour matching, make sure the Product in each area is applied from the same control batch numbers.

IMPORTANT

Incomplete curing due to excessive thickness

If the product is applied at an excessive thickness, it may not cure properly.

1. Make sure to follow the consumption as specified in the Application Information.

PRIMER

1. Pour the Product onto the surface.
2. Apply the Product evenly over the surface with a brush, fleece roller or a squeegee.
3. Back roll the surface in two directions at right angles with a fleece roller.

SMOOTH COATING

1. Pour the Product onto the surface.
2. Apply the Product evenly over the surface with a medium pile roller.

SLIP-RESISTANT BROADCAST LAYER

1. Pour the mixed Product onto the prepared substrate.
2. Apply the Product evenly over the surface with a trowel.
3. Back roll the surface in two directions at right angles with a spike roller.
4. Allow the product to cure for 15 minutes.

Note: Times are temperature dependant. Times given are for +20 °C.

5. Broadcast the surface with quartz sand or silicon

PRODUCT DATA SHEET

Sikafloor®-400 N Elastic

December 2024, Version 04.02

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carbide, lightly at first, then to excess.

Note: The aggregate is dependant on the system build-up. Refer to the relevant System Data Sheet.

6. Allow the surface to become tack free.
7. Remove all loose sand with industrial vacuuming equipment.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with Sika® Thinner C immediately after use. Hardened material can only be removed mechanically.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

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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December 2024, Version 04.02
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