

BUILDING TRUST

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

CHARACTERISTICS / ADVANTAGES

- 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

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

Chemical Base	Polyurethane	
Packaging	18 kg	
Appearance / Colour	Appearance and colour Cured colour	Coloured liquid A range of colour shades available - contact your Sika Rep for details
Shelf Life	6 months from date of produc	tion

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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 weight	~ 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)	
Elongation 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.			
Service Temperature	Short term, maximum 8 h	nours +100 °C		

Short term, maximum 7 days

Permanent

APPLICATION INFORMATION

Consumption	Type of application	Product	Consumption
	Light coating	Sikafloor®-400 N Elastic	
		+ (optional) 10 % by weight Sika® Thinner C	
		Sikafloor®-400 N Elastic Topcoat	1.0-1.2 kg/m ²
	Medium Duty Coating	Primer 1-2 coats Sika- floor 150/151	0.4-0.6 kg/m ²
		Sikafloor®-400 N Elastic Topcoat	0.9-1.5 kg/m ²
	Heavy Duty Coating	Primer 1-2 coats Sika- floor 150/151	0.4-0.6 kg/m ²
		Sikafloor®-400 N Elastic Basecoat	0.8 kg/m ²
		Broadcast to refusal with Sika® Aggregate- 501	4-6. kg/m ²
		Sikafloor®-400 N Elastic Topcoat	0.5-1.1 kg/m ²
	On inclined areas with a gradient of up to 4 %	Sikafloor®-400 N Elastic	~1 kg/m²
	Vertical and inclined areas with a gradient of ≥ 4 %	Sikafloor®-400 N Elastic + 1.5–2 % Sika® Ex- tender T	1.0-1.5 kg/m ²

application equipment.

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the exact consumption for the specific substrate conditions and proposed

+80 °C +50 °C

Layer Thickness	Refer to the relev	ant System Data S	heet			
Product Temperature	Minimum		+10 °C	+10 °C		
	Maximum		+30 °C			
Ambient Air Temperature	Minimum		+10 °C			
	Maximum		+30 °C	+30 °C		
Relative Air Humidity	Maximum 80 %					
	Minimum 35 % or 45 % at > + 20 °C			20 °C		
Dew Point	Beware of condensation. The substrate and uncured applied product mus 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 meth	od	Moistu	ire content	
		strates Sika® Tran metre	Sika® Tramex moisture ≤ 6 %			
	Cementitious substrates Calcium carbide method od (CM-method)		≤ 4 %			
	No rising moisture according to ASTM (Polyethylene-sheet). Osmosis caused by rising moisture or incorrect primer application is not covered by the product waranty.					
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 sign ficantly.					
Waiting Time / Overcoating	Before overcoating the Product, allow:					
	Substrate temperature Minimum		Maximum			
	+10 °C	~36 hours		~5 day		
	+20 °C	~24 hours		~3 day		
	+30 °C	~16 hours		~2 day	S	
	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 hou	ırs '	~7–14 days	
	+20 °C	~5 hours	~6–24 hour	·s '	~5–9 days	
	+30 °C	~3 hours	~4–18 hour	·s ·	~3–5 days	
	Note: Times are a conditions, partice dependant on layer	ularly temperature		-		

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

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

flooring systems

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.

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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 MPa) with a minimum tensile strength of 1.5 MPa

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

SUBSTRATE PREPARATION

TREATMENT OF JOINTS AND CRACKS

Except for stable, non-movement and shrinkage cracks – all cracks and junctions 1.0 mm and over are to be routed or saw cut and filled with Sikaflex-123 MS Bond polyurethane sealant to help accommodate minor structural movement (Refer to movement and elongation characteristics in the relevant Sika data sheets). The Sikaflex-123 MS Bond must be left to fully cure prior to the application of the Sikafloor-400 N Elastic PREPARATION OF MINERAL SUBSTRATES

Rough and uneven surfaces must be levelled. Alternatively apply a scratch coat of Sikafloor®-150/-151, 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.
- 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 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.



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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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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