

ELAPRO 1k-SIL

TD121 Technical data sheet



Areas of application

ELAPRO 1k-SIL is used for surfaces, details and connections of roofs, balconies, loggias, pergolas and floor-to-ceiling windows and door connections. ELAPRO 1k-SIL is also suitable for use on external wall surfaces, earth-covered ceiling surfaces in accordance with DIN 18533, indoor and outdoor containers and used surfaces indoors and outdoors.

Delivery form

Metal can: 6 kg/12 kg

Test certificates

ETAG 005 (19/0623) – Part 6: Polyurethane base

Useful life	W3
Climate zone	M, S
Payloads	P1-P4
Roof pitch	S1-S4
Surface temperature (min):(max)	TL4:TH4

Fire behaviour (DIN 4102-1 and DIN EN 13501-1)

Fire class	Class E
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External fire performance (DIN 4102-7 and DIN EN 13501-5)

Class	B _{Roof} (f1)
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Building waterproofing PG-FLK (P-1202/812/20 MPA-BS)

Water pressing from the outside	3 m
Water pressing from the inside	10 m

Root resistance in accordance with FLL test and DIN EN 13948

Class	Root resistance
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EMICODE® EC 1PLUS in accordance with GEV

Premium class	Very low emission
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Classification: non-toxic

Classification	non-toxic
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Material properties

System basis	Silane-terminated polyurethane
Hardening	Humidity
Viscosity	Viscous, thixotropic
Density	approx 1.4 g/cm ³
Standard colours	Anthracite grey (approx. RAL 7016) Silver-grey (approx. RAL 7001)

Processing-relevant data

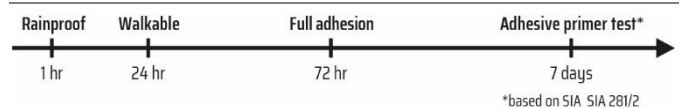
Relative humidity ¹	25 to 100%
Processing temperature	0 to +40°C
Substrate temperature ¹	0 to +60°C Min. 3°C above the dew point
Residual substrate moisture	dry to slightly damp
Consumption	min. 3.3 kg/m ²
Processing time ^{2,3}	90 min.
Rainproof ³	After 1 hour (20°C/50% RH)
Walkable ³	After 24 hours (20°C/50% RH)
Crosslinking complete ³	After 72 hours (20°C/50% RH)
Recoatable /	
Interruption of work	Up to 24 hours, clean or roughen afterwards

¹During processing, the surface temperature must be 3°C above the dew point. At lower temperatures - generally above 85% RH - a separating film of condensate can form on the surface to be coated. Relative humidities of up to 100% are permitted in the hours after processing.

²Avoid direct sunlight. The container must be sealed airtight during extended breaks from work.

³Measurements made at 20°C and a relative humidity of 50%. The values specified are affected by weather conditions like humidity, temperature and wind. The temperature and humidity must permit the coating to harden in the hours after application.

Hardening times



Tools

Processing:	Short-fibre roller, paintbrush, notched squeegee
Stirring:	Electric stirrer, stirring rod
Cleaning:	When liquid, with a dry cloth or ELAPRO Cleaner

Processing

For a detailed description, see the product-specific processing instructions.

Storage and shelf life

At least 12 months if stored unopened and airtight in the original packaging in a cool, dry and frost-free environment. Avoid direct sunlight, even when working with the product on building sites. Open, at least half-full containers can be kept for up to 9 months under the same conditions.

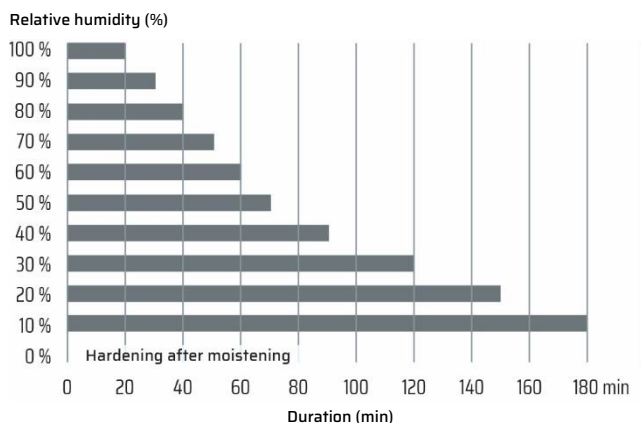
Primer recommendation*

It is essential that the surface is cleaned. Grinding increases the surface and is therefore recommended to achieve better adhesion. Concrete and cement substrates as well as tiled surfaces must be prepared by removing material.

Substrate	Substrate preparation
Concrete and screed (used surfaces)	ELAPRO Primer UN
Concrete and plaster (details, connections)	Primer not necessary
Bitumen sheet, slated/sanded	Primer not necessary
Glass	Primer not necessary
Timber-based materials (glued laminated timber, OSB among others)	Primer not necessary
Wood (untreated)	Primer not necessary
Clinker brick	Primer not necessary
EPDM	ELAPRO Primer KS
EVA	ELAPRO Primer KS
FPO/TPO	ELAPRO Primer KS
GRP	ELAPRO Primer KS
PVC (sheets)	ELAPRO Primer KS
PVC (hard)	ELAPRO Primer KS
Aluminium	ELAPRO Primer UN
Stainless steel	ELAPRO Primer UN
Copper	ELAPRO Primer UN
Steel	ELAPRO Primer UN
Zinc	ELAPRO Primer UN
Other substrates	See TD123

*We always recommend conducting an adhesive primer test, see TD122.

Rainproofing (20°C)*



*Important! Values can deviate if weather conditions like humidity or temperature change during hardening.

Compatible system components

- ELAPRO Topcoat
- ELAPRO Primer KS / UN
- ELAPRO Vlies 110 / 120 / Moulded non-woven material parts
- ELAPRO SFB
- ELAPRO Cleaner
- ELAPRO QuickDry

Disposal

Product residues

Liquid:	AVV 08 04 10
Hardened:	AVV 08 04 10

Packaging

Not fully empty:	AVV 08 04 10
Empty/drip-free:	AVV 15 01 04

Note: Product residues and packaging must be disposed of properly in compliance with the European List of Waste Materials (AVV/formerly EAK).

Associated documents

Please refer also to the following documents:

- TD122 Processing Instructions
- TD123 Primer Recommendation
- TD124 Safety Data Sheet
- TD811 Dew Point Table

General information

All information provided here serves only to describe the material and is based on tests and results achieved in practical use. As a result, no liability can be accepted for its accuracy or completeness. Advice is provided to the best of our knowledge and does not release users from testing by accredited specialists such as planners and experts. Colour deviations or changes do not affect the products' technical parameters. The times specified are reduced at higher ambient and surface temperatures and extended at lower ambient and surface temperatures. All data is subject to changes without notice. The data sheet shall cease to be valid 5 years after publication. The latest version must always be used. It is available in the download area on our website www.elapro.de. The details and recommendations in this product information correspond to the current state of our knowledge and are provided to inform the buyer. They do not release the buyer from assessing the products for suitability and use on the respective substrate. The products described must only be processed as a system with the system components mentioned here. We guarantee flawless quality within the framework of our terms of delivery and payment.

Safety instructions

All safety instructions on the containers, the technical product information and the safety data sheets and relevant local, national and EU regulations must be complied with. Personal occupational health and safety must be observed.