

ELAPRO 1k-CRYL

TD111 Technical Data Sheet



Areas of application

ELAPRO 1k-CRYL is used for waterproofing surfaces, connections and details on roofs, balconies, loggias, access balconies as well as floor-to-ceiling window and door connections.

Delivery form

Plastic container: 5 kg/10 kg

Care instructions to prevent algae growth

1. Avoid ponding on the roof
2. Inspect the waterproofing annually
3. Clean the roof regularly using pressurised water and a broom

Test certificates

ETA – 18/0987 based on EAD 030350-00-0402

Working life	W3
Climatic zone	M, S
Load capacities	P1-P4
Roof slope	S1-S4
Surface temperature (min):(max)	TL4:TH3

Reaction to fire (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)

Class	B _{Roof} (t1)
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Material properties

System basis	Polyester resin / Polyacrylate
Hardening	Air drying and self-crosslinking
Viscosity	Viscous, thixotropic
Density	approx. 1.4 g/cm ³
Standard colours	Black (approx. RAL 9005) Silk grey (approx. RAL 7044)

Processing-relevant data

Relative humidity	0 to 75%
Processing temperature	+10 to +35°C
Substrate temperature	+5 to +60°C Min. 3°C above the dew point
Residual moisture (concrete/screed)	dry to slightly damp
Consumption	min. 3.5 kg/m ²
Processing time ^{1, 2}	25 min.
Rainproof ²	After 1 hour (20°C/50% RH)
Walkable ²	After 24 hours (20°C/50% RH)
Crosslinking complete ²	After 72 hours (20°C/50% RH)
Recoatable / Interruption of work ³	Unlimited, once cleaned

¹Avoid direct sunlight. The container must be sealed airtight during extended breaks from work.

²Measurements at 20°C and a relative humidity of 50%. The specified values are affected by weather conditions such as humidity, temperature and wind. Temperature and humidity must also allow the material to cure during the hours following application.

³Clean the fully cured surface generously with ELAPRO Cleaner, and, if necessary, roughen mechanically beforehand.

Hardening times (20°C / 50% RH)



Tools

Processing:	Short-fibre nylon roller, paintbrush, trowel
Stirring:	Electric stirrer, stirring rod
Cleaning:	In liquid state, with water

Processing

For detailed information, please refer to the product-specific Processing Instructions.

Primer recommendation¹

The substrate must be thoroughly cleaned. Abrading increases the surface area and is therefore always recommended to improve adhesion. Concrete and cementitious substrates as well as tiled surfaces must be prepared by mechanically removing material.

Substrate	Substrate preparation
Concrete and screed (used surfaces)	ELAPRO Primer UN / BE ²
Concrete and plaster (details, connections)	Primer not necessary
Bitumen sheet, slated/sanded	Primer not necessary
Glass	Primer not necessary
Timber (untreated)	Primer not necessary
Timber-based materials (glued laminated timber, OSB among others)	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)	Primer not necessary
Aluminium	ELAPRO Primer UN
Stainless steel	ELAPRO Primer UN
Copper	Not necessary
Steel	ELAPRO Primer UN
Zinc	Primer not necessary
Other substrates	See TD113

¹We always recommend conducting an adhesion test, see TD112.

²Mainly used indoors.

Storage and shelf life

At least 24 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.

Compatible system components

- ELAPRO Primer KS / UN / BE
- ELAPRO Fleece 110 / Nonwoven corners / Pipe sleeves
- ELAPRO SFB
- ELAPRO Cleaner
- ELAPRO MD series

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 02

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

Associated documents

Please refer also to the following documents:

- TD112 Processing Instructions
- TD113 Primer Recommendation
- TD114 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.