

Approval body for construction products  
and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and  
Laender Governments



## European Technical Assessment

ETA-18/0987  
of 28 July 2020

English translation prepared by DIBt - Original version in German language

### General Part

Technical Assessment Body issuing the  
European Technical Assessment:

Deutsches Institut für Bautechnik

Trade name of the construction product

ELAPRO Dachdicht 1k-CRYL/ELAPRO Balkondicht  
1k-CRYL

Product family  
to which the construction product belongs

Liquid applied roof waterproofing based on water  
dispersible polymers

Manufacturer

ELAPRO GmbH & Co. KG  
Wasserturmstraße 5  
06766 Bitterfeld-Wolfen  
DEUTSCHLAND

Manufacturing plant

ELAPRO GmbH & Co. KG  
Ndl. Wolfen  
Wasserturmstr. 5  
06766 Bitterfeld-Wolfen

This European Technical Assessment  
contains

7 pages including 2 annexes which form an integral part  
of this assessment

This European Technical Assessment is  
issued in accordance with Regulation (EU)  
No 305/2011, on the basis of

ETAG 005 Part 8: "Specific stipulations for kits based on  
water dispersible polymers",  
used as EAD according to Article 66 Paragraph 3 of  
Regulation (EU) No 305/2011.

This version replaces

ETA-18/0987 issued on 27 June 2019

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## Specific part

### 1 Technical description of the product

The liquid applied roof waterproofing "ELAPRO Dachdicht 1k-CRYL/ELAPRO Balkondicht 1k-CRYL" is a kit, which consists of the following components:

- primer (if required)
- liquid applied roof waterproofing "ELAPRO Dachdicht 1k-CRYL/ELAPRO Balkondicht 1k-CRYL" on the basis of a water dispersible acrylic solution
- polyester fleece "ELAPRO Vlies" as reinforcement

For an adequate adhesion of the waterproofing layer – depending on the type of substrate – a primer is required. In general the primer belonging to the substrate is given in the manufacturer's technical documents<sup>1</sup>. In single cases the manufacturer is responsible to give guidance which pretreatment/primer is required.

The minimum layer thickness of the roof waterproofing applied is 2.1 mm.

As an assembled system these components form a homogeneous seamless roof waterproofing.

The liquid applied roof waterproofing "ELAPRO Dachdicht 1k-CRYL/ELAPRO Balkondicht 1k-CRYL" does not contain any substances that are intended to inhibit or prevent root penetration (root protection agents).

The components and the system build-up of the roof waterproofing "ELAPRO Dachdicht 1k-CRYL/ELAPRO Balkondicht 1k-CRYL" are given in Annex A.

### 2 Specification of the intended use in accordance with the applicable EAD

The product is used for the waterproofing of roof surfaces against penetration of atmospheric water.

In the technical documents the manufacturer give information concerning the substrates which the product is suitable for and on how these substrates shall be pre-treated.

The levels of use categories are given in Annex A.

The verification and assessment methods on which this European Technical Assessment is based lead to the assumption of working life of the product of 25 years. The indications given on the working life cannot be interpreted as a guarantee given by the producer, but are to be regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works.

The levels of use categories and performance given in Section 3 are only valid if the liquid applied roof waterproofing is used in compliance with the specifications and conditions given in Annex B and the installation instructions of the manufacturer stated in the technical documents.

<sup>1</sup> The manufacturer's technical documents comprises all information necessary for the production and the installation of the product as well as for repair of the roof waterproofing made from that and it is deposited with DIBt.

### 3 Performance of the product and references to the methods used for its assessment

#### 3.1 Safety in case of fire (BWR 2)

Essential characteristic	Performance
External fire performance	See Annex A
Reaction to fire	See Annex A

#### 3.2 Hygiene, health and the environment (BWR 3)

Essential characteristic	Performance
Water vapour permeability	See Annex A
Watertightness	See Annex A
<b>Content of dangerous substances</b>	
Substance/s classified as EU-cat. Carc. 1A and/or 1B <sup>a)</sup>	The kit does not contain these dangerous substances. <sup>b)</sup>
Substance/s classified as EU-cat. Muta. 1A and/or 1B <sup>a)</sup>	
Substance/s classified as EU-cat. Repr. 1A and/or 1B <sup>a)</sup>	
Release scenario regarding BWR 3: S/W 2	
Resistance to mechanical damage (perforation)	See Annex A, Levels of use categories
Resistance to plant roots	See Annex A

a) In accordance with the Regulation (EG) No. 1272/2008

b) Assessment based on the detailed manufacturer's statements

#### 3.3 Safety and accessibility in use (BWR 4)

Essential characteristic	Performance
Resistance to wind loads	See Annex A
Slipperiness	See Annex A

#### 3.4 General aspects

The verification of durability and serviceability is part of testing the essential characteristics. Durability and serviceability are only ensured if the specifications of intended use according to Annex B and the specifications of the technical documents of the manufacturer are kept.

### 4 Assessment and verification of constancy of performance (AVCP) system applied, with reference to its legal base

In accordance with ETAG 005 used as EAD, the applicable European legal act is: 98/599/EC

The system to be applied is: 3

In addition, with regard to reaction to fire for products covered by this ETAG the applicable European legal act is: 2001/596/EC

The system to be applied is: 3

English translation prepared by DIBt

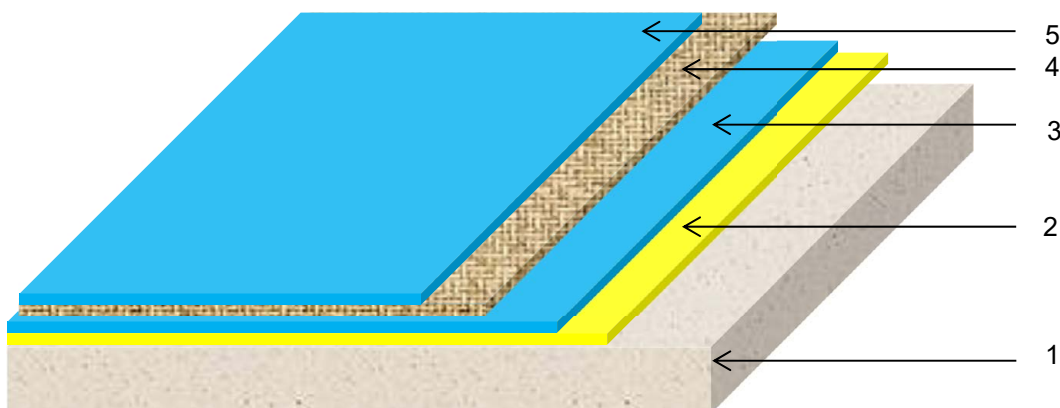
**5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD**

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited with Deutsches Institut für Bautechnik.

Issued in Berlin on 28 July 2020 by Deutsches Institut für Bautechnik

BD Dipl.-Ing. Andreas Kummerow  
Head of Department

*beglaubigt:*  
Gnamou



1. Substrate
2. Primer (ELAPRO Haftgrund UN, ELAPRO Haftgrund KS; if required)
3. 1. layer of liquid applied roof waterproofing "ELAPRO Dachdicht 1k-CRYL/ELAPRO Balkondicht 1k-CRYL"
4. Polyester fleece "ELAPRO Vlies" (nominal weight min. 110 g/m<sup>2</sup>)
5. 2. layer of liquid applied roof waterproofing "ELAPRO Dachdicht 1k-CRYL/ELAPRO Balkondicht 1k-CRYL"

Applicable to the roof waterproofing "ELAPRO Dachdicht 1k-CRYL/ELAPRO Balkondicht 1k-CRYL"

Minimum layer thickness	2.1 mm	
minimum quantity consumed:	3.5 kg/m <sup>2</sup>	
<b><u>Levels of use categories according to ETAG 005 with relation to:</u></b>		
Working life:	W3 (25 years)	
Climatic zones	M and S (moderate to severe climate)	
Resistance to mechanical damage (perforation) (non-compressible substrates, e.g. concrete, steel)	P1 to P4 (from low to high)	
Roof slope	S1 to S4 (each slope)	
Lowest surface temperature	TL4 (-30 °C)	
Highest surface temperature	TH3 (80 °C)	
Use category related to BWR 3:	S/W 2	
<b><u>Performance of the product:</u></b>		
External fire performance	EN 13501-5	B <sub>ROOF</sub> (t <sub>1</sub> ) *
Reaction to fire	EN 13501-1	class E
Water vapour diffusion resistance factor $\mu$		$\mu \approx 10970$
Watertightness		pass
Statement on dangerous substances		see section 3.2
Resistance to plant roots		no performance assessed
Resistance to wind loads		$\geq 50$ kPa
Resistance to slipperiness		no performance assessed

\* see next page

ELAPRO Dachdicht 1k-CRYL/ELAPRO Balkondicht 1k-CRYL, ELAPRO Balkondicht 1k-CRYL  
ELAPRO GmbH & Co. KG

**System built-up, levels of use categories and performances of the product**

Annex A

### External fire performance

\* class B<sub>ROOF</sub> (t<sub>1</sub>)

The classification is valid for the following supporting decks:

- all roof pitches
- any wooden continuous wood deck with a minimum thickness of 16 mm or non-combustible continuous deck with gaps not exceeding 5 mm
- expanded polystyrol (EPS) with a minimum thickness of 50 mm (min. fire class E) and a compressive stress of  $\leq 100$  kPa
- 1. Layer bitumen sheet the designation "V 13" (fire class E) with sanded surface and welded with the 2. bitumen sheet "G 200 DD" (fire class E).
- Roof cladding "ELAPRO DACHdicht 1k-CRYL" consisting in:
  - ca. 2 kg/m<sup>2</sup> "ELAPRO DACHdicht 1k-CRYL" as ground coating
  - Polyester fleece "ELAPRO Vlies" with a surface weight of approx. 110 g/m<sup>2</sup>
  - ca. 1,4 kg/m<sup>2</sup> "ELAPRO DACHdicht 1k-CRYL" as top layer

Any other roof system for which classification documents for B<sub>ROOF</sub> (t<sub>1</sub>) according to EN 13501-5 are available.

### Installation

The levels of use categories and the performance of the roof waterproofing can be assumed only, if the installation is carried out according to the installation instructions stated in the technical documents of the manufacturer, in particular taking account of the following points:

- installation by appropriately trained personnel
- installation of only those components which are marked components of the kit
- installation with the required tools and adjuvants
- precautions during installation
- inspecting the roof surface for cleanliness and correct preparation, if need be, applying a primer before applying the product
- inspecting compliance with suitable weather and curing conditions
- ensuring a thickness of the cured waterproofing of at least 2.1 mm by processing appropriate minimum quantities of material
- inspections during installation and of the finished product and documentation of the results

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Reaction to external fire & specifications

Annex B