



Approval body for construction products and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and Laender Governments



European Technical Assessment

ETA-19/0108 of 4 March 2019

English translation prepared by DIBt - Original version in German language

General Part

Technical Assessment Body issuing the European Technical Assessment:

Trade name of the construction product

Product family to which the construction product belongs

Manufacturer

Manufacturing plant

This European Technical Assessment contains

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

Deutsches Institut für Bautechnik

1K-Flüssigkunststoff PRO

Liquid applied roof waterproofing based on polyurethane

Adolf Würth GmbH & Co. KG Reinhold-Würth-Straße 12-17 74653 Künzelsau DEUTSCHLAND

Manufacturing plant 423

8 pages including 3 annexes which form an integral part of this assessment

ETAG 005 Part 6: "Specific stipulations for kits based on polyurethane",

used as EAD according to Article 66 Paragraph 3 of Regulation (EU) No 305/2011.



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Specific part

1 Technical description of the product

The liquid applied roof waterproofing "1K-Flüssigkunststoff PRO" is a kit, which consists of:

- · primer if required
- liquid applied roof waterproofing "1K-Flüssigkunststoff PRO" on the basis of a onecomponent polyurethane
- polyester fleece 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 documents¹. 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 2.0 mm.

As an assembled system applied on the substrate these components form a homogeneous, seamless roof waterproofing.

The components and the system build-up of the roof waterproofing "1K-Flüssigkunststoff PRO" are given in Annex A.

2 Specification of the intended use in accordance with the applicable European Assessment Document

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

The product is suitable for compressible substrates (e.g. insulation boards) and non-compressible substrates (e.g. steel, concrete).

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 verifications and assessment methods on which this European Technical Assessment is based lead to the assumption of a working life of the roof waterproofing of at least 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.

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.



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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 A1/A2
Reaction to fire	see Annex A1

3.2 Hygiene, health and the environment (BWR 3)

Essential characteristic	Performance
Water vapour permeability	see Annex A1
Watertightness	see Annex A1
Content of dangerous substances	no performance assessed
Release scenario regarding BWR 3 : S/W 2	
Resistance to mechanical damage (perforation)	see Annex A1
Resistance to plant roots	see Annex A1

3.3 Safety and accessibility in use (BWR 4)

Essential characteristic	Performance
Resistance to wind loads	see Annex A1
Slipperiness	see Annex A1

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 005-6 used as EAD, the applicable European legal act is: 98/599/EC.

The system to be applied is: 3

In addition, with regard to e.g. 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





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

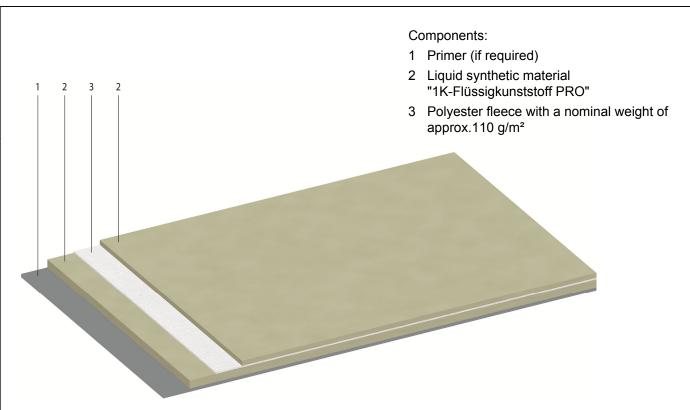
Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited with Deutsches Institut für Bautechnik.

Issued in Berlin on 4 March 2019 by Deutsches Institut für Bautechnik

BD Dipl.-Ing. Andreas Kummerow Head of Department

beglaubigt: Hannoun





Roof waterproofing "1K-Flüssigkunststoff PRO":

Minimum layer thickness	2.0 mm	
Minimum quantity consumed:	3.0 kg/m²	
Levels of use categories according to ETAG 005 with relation to:		
Working life:	W3	
Climatic zones	M and S (moderate and severe climatic)	
Resistance to mechanical damage (perforation)	P1 to P4	
(compressible substrate, e.g. insulation boards and non-compressible substrate, e.g. concrete/steel)	(from low to high)	
Roof slope	S1 to S4 (all slopes)	
Lowest surface temperature	TL4 (-30 °C)	
Highest surface temperature	TH4 (90 °C)	
Performance of the product:		
External fire performance EN 13501-5	* B _{ROOF} (t1), B _{ROOF} (t2), B _{ROOF} (t3) & B _{ROOF} (t4)	
Reaction to fire EN 13501-1	E	
Water vapour diffusion resistance factor µ	µ ≈ 993	
Watertightness	pass	
Statement on dangerous substances	see section 3.2	
Resistance to plant roots	no performance assessed	
Resistance to wind loads	≥ 50 kPa for tear resistant substrates	
Resistance to slipperiness	no performance assessed	

^{*} The classification is valid for supporting decks see annex A2

1K-Flüssigkunststoff PRO Adolf Würth GmbH & Co KG	
System built up, levels of use categories and performance of the product	Annex A1

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Class B _{ROOF} (t1)	Class B _{ROOF} (t2)	Class B _{ROOF} (t3)	Class B _{ROOF} (t4)
For pitches < 20° on	All pitches with combustible and non-combustible substrates, e.g. wood deck 18 mm with vapour barrier and Insulation (EPS 50 mm) covered with two layers SBS bitumen	For pitches < 10° on	For pitches < 10° by roof consisting of plywood deck (18 mm) vapour control layer PIR-insulation (120 mm)

And any other roof systems for which classification documents for B_{ROOF} (tX) according EN 13501-5 are available

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Supporting decks for external fire performance	Annex A2

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Installation

electronic copy of the eta by dibt: eta-19/0108

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,
- finding out whether to the given ambient temperature the application with the adjustment for summer or winter is to be accomplished,
- ensuring a thickness of the waterproofing of at least 2.0 mm by processing appropriate minimum quantities of material,
- inspections during installation and of the finished product and documentation of the results.

1K-Flüssigkunststoff PRO Adolf Würth GmbH & Co KG	
Intended use Specifications	Annex B

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