

Approval body for construction products
and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and
Laender Governments



European Technical Assessment

ETA-14/0279
of 21 November 2022

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General Part

Technical Assessment Body issuing the
European Technical Assessment:

Deutsches Institut für Bautechnik

Trade name of the construction product

LASTOFLEX-PU

Product family
to which the construction product belongs

Liquid applied roof waterproofing on the basis of
polyurethane

Manufacturer

ELASTOTET SA
48° KM National Road Athens Lamia
190 11 AVLONA ATTIKI
GRIECHENLAND

Manufacturing plant

Avlona Plant
48° KM National road Athens Lamia
190 11 AVLONA ATTIKI
Griechenland

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

EAD 030350-00-0402

This version replaces

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Specific part

1 Technical description of the product

The liquid applied roof waterproofing "LASTOFLEX-PU" is a kit, which consists of the components:

- liquid applied roof waterproofing on the basis of a polyurethane
- optional with a non woven polyester fibre 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 technical documents¹. In single cases the manufacturer is responsible to give guidance which pre-treatment/primer is required.

The liquid applied roof waterproofing Materials can be applied by pouring and/or brushing.

The minimum layer thickness of the waterproofing applied is 1.8 mm with a polyester fleece of 120 g/m² or 1.2 mm without fleece.

As an assembled system these components form a homogeneous seamless roof waterproofing. The liquid applied roof waterproofing "LASTOFLEX-PU" 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 "LASTOFLEX-PU" are given in Annex A.

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

The liquid applied roof waterproofing is used for the waterproofing of roof surfaces, terraces and balconies.

The product is suitable for non-compressible substrates (e.g. concrete).

The product can be used for new roofs or for upgrading existing roof waterproofing. It can also be used for the waterproofing of details on vertical surfaces.

The categorisation according to use is 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 10 years resp. 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 performances 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.

¹ The manufacturer's technical documents comprise 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 Basic Works Requirement 2: Safety in case of fire

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

3.2 Basic Works Requirement 3: Hygiene, health and the environment

Content, emission and/or release of dangerous substances	
Release scenario	S/W 2
Substance/s classified as EU-cat. Carc. 1A and/or 1B ^{a)}	no performance assessed ^{b)}
Substance/s classified as EU-cat. Muta. 1A and/or 1B ^{a)}	
Substance/s classified as EU-cat. Repr. 1A and/or 1B ^{a)}	
Essential characteristic	Performance
Resistance to water vapour	see annex A
Watertightness	see annex A
Resistance to wind loads	see annex A
Resistance to mechanical damage (perforation)	see annex A, levels of use categories
Resistance to fatigue movement	see annex A
Resistance to the effects of low and high surface temperature	see annex A
Resistance to ageing media (heat and water)	see annex A
Resistance to UV radiation in the presence of moisture (climate zones)	see annex A
Resistance to plant roots	see annex A
Effects of variations in kit components and site practices	see annex A
Effects of day joints	see annex A

^{a)} In accordance with Regulation (EC) No 1272/2008

^{b)} Assessment based on the detailed manufacturer's statements

3.3 Basic Works Requirement 4: Safety and accessibility in use

Essential characteristic	Performance
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 file 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 EAD 030350-00-0402 the applicable European legal act is: 98/599/EC and amended by Commission Decision 2001/596/EC.

The system to be applied is: 3

With regard to external fire exposure and reaction to fire for products covered by this EAD, the system to be applied is: 3

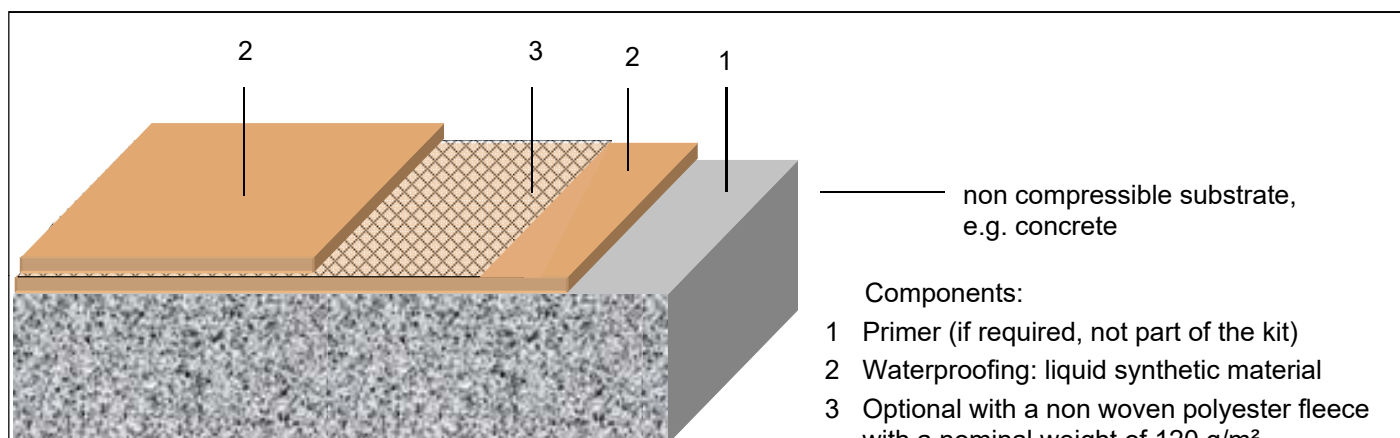
5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD

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 21 November 2022 by Deutsches Institut für Bautechnik

Bettina Hemme
Head of Section

beglaubigt:
Gnamou



Description of the product			without fleece	with a polyester fleece
Minimum layer thickness			1.2 mm	1.8 mm
minimum quantity consumed			1.9 kg/m²	2.5 kg/m²
Roof slope			S1 to S4 (each slope)	
Performance of the product:			Description / Class / Level	
External fire performance		EN 13501-5	F _{Roof}	
Reaction to fire		EN 13501-1	Class E	
Content, emission and/or release of dangerous substances			See section 3.2	
resistance to water vapour (Water vapour diffusion resistance factor)			μ ≈ 1900	μ ≈ 1600
Watertightness			Watertight	
Resistance to wind loads			≥ 50 kPa	
Resistance to mechanical damage (perforation) (non-compressible substrates)			P1 (low)	P1 to P4 (from low to high)
Resistance to fatigue movement			W3	W2
Resistance to the effects of		low surface temperature	TL4 (-30 °C)	
		high surface temperature	TH3 (80°C)	TH4 (90 °C)
Working life according to the resistance to ageing media (heat and water)			W3 (25 years)	W2 (10 years)
Resistance to UV radiation in the presence of moisture (climatic zones)			M and S (moderate and severe climatic)	
Resistance to plant roots			No performance assessed	
Effects of variations in kit components and site practices	at 3 °C	Maximum tensile strength	3.31 MPa	5.75 MPa
		Elongation	289 %	25.3 %
		Dynamic indentation	P4	
	at 40 °C	Maximum tensile strength	3.1 MPa	6.72 MPa
		Elongation	226 %	32.5 %
		Dynamic indentation	P4	
Effects of day joints			1.33 MPa	1.5 MPa
Slipperiness			No performance assessed	

LASTOFLEX-PU
ELASTOTET SA

System built-up, categorisation of use and classifications

Annex A

Installation

The levels of use categories and the performances of the roof waterproofing can be assumed only, if the installation is carried out according to the installation instructions stated in the technical file 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 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 waterproofing of at least 1.2 mm without fleece resp. 1.8 mm with a polyester fleece with a nominal weight of 120 g/m² by processing appropriate minimum quantities of material
- inspections during installation and of the finished product and documentation of the results

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Intended use, specifications

Annex B