



Approval body for construction products and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and Laender Governments



European Technical Assessment

ETA-15/0206 of 4 April 2022

English translation prepared by DIBt - Original version in German language

General Part

Technical Assessment Body issuing the Deutsches Institut für Bautechnik **European Technical Assessment:** Trade name of the construction product **ISOFLEX-PU 500 ISOFLEX-PU 500A ISOFLEX-PU 510** Product family Liquid applies roof waterproofing kit based on to which the construction product belongs polyurethane ISOMAT S.A. Manufacturer 17th km Thessaloniki - Agios Athanasios Road 570 03 AGIOS ATHANASIOS GRIECHENLAND Manufacturing plant ISOMAT S.A. 17th km Thessaloniki - Agios Athanasios Road 570 03 AGIOS ATHANASIOS GRIECHENLAND 7 pages including 2 annexes which form an integral part This European Technical Assessment contains of this assessment EAD 030350-00-0402 This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of This version replaces

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Specific part

1 Technical description of the product

The liquid applied roof waterproofing "ISOFLEX-PU 500", "ISOFLEX-PU 500A" or "ISOFLEX-PU 510" is a kit, which consists of the components:

- Primer "Primer-PU 100", ", if required on mineral and/or porous substrates
- liquid applied roof waterproofing "ISOFLEX-PU 500", "ISOFLEX-PU 500A" or "ISOFLEX-PU 510" on the basis of a one-component polyurethane for brush application
- 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 technical documents¹. In single cases the manufacturer is responsible to give guidance which pretreatment/primer is required.

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

The minimum layer thickness of the roof waterproofing applied is 2.5 mm

As an assembled system these components form a homogeneous seamless roof waterproofing. The liquid applied roof waterproofing "ISOFLEX-PU 500", "ISOFLEX-PU 500A" or "ISOFLEX-PU 510" 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 "ISOFLEX-PU 500", "ISOFLEX-PU 500A" or "ISOFLEX-PU 510" 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 compressible (e.g. EPS) and 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 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.

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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.



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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)}		
Substance/s classified as EU-cat. Muta. 1A and/or 1B ^{a)}	no performance assessed	
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.



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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

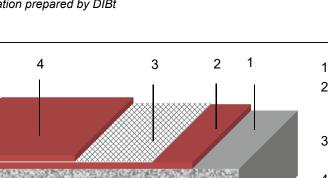
Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited with Deutsches Institut für Bautechnik.

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substrate



- 1 Primer (if required)
- 2 Waterproofing: liquid synthetic material "ISOFLEX-PU 500", "ISOFLEX-PU 500A" or "ISOFLEX-PU 510"
- 3 Polyester fleece with a nominal weight of 120 g/m²
- 4 Waterproofing: liquid synthetic material "ISOFLEX-PU 500", "ISOFLEX-PU 500A" or "ISOFLEX-PU 510"

Description of the	product		
Minimum layer thick	ness		2.5 mm
minimum quantity co	onsumed:		2.5 kg/m²
Roof slope			S1 to S4 (each slope)
Performance of the	e product	:	Description / Class / Level
External fire perform	nance	EN 13501-5	B _{Roof} (t1)
Reaction to fire EN 13501-1			no performance assessed
Content, emission a	nd/or rele	ase of dangerous substances	see section 3.2
resistance to water	vapour (W	ater vapour diffusion	µ ≈ 1800
resistance factor)			
Watertightness			watertight
Resistance to wind loads			≥ 50 kPa
Resistance to mechanical damage (perforation) (non-			P1 to P4
compressible substr	ates)		(from low to high)
Resistance to fatigue movement			W3
Resistance to the ef	fects of	low surface temperature	TL4 (-30 °C)
		high surface temperature	TH4 (90 °C)
Working life according to the resistance to ageing media (heat and water)			W3 (25 years)
· /	idiation in	the presence of moisture	M and S (moderate and severe climatic)
Resistance to plant	roots		no performance assessed
Effects of	at 5 °C	Maximum tensile strength	6.8 MPa
variations in kit		Elongation	43.9 %
components and		Dynamic indentation	P4
site practices	at 30 °C	Maximum tensile strength	7.1 MPa
		Elongation	39.4 %
		Dynamic indentation	P4
Effects of day joints			830 kPa
Slipperiness			no performance assessed

"ISOFLEX-PU 500", "ISOFLEX-PU 500A" or "ISOFLEX-PU 510" ISOMAT S.A.

System built-up, categorisation of use and classifications

Annex A

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External fire performance

* class BROOF (t1)

- The classification is valid for the following supporting decks:
- roof pitches < 20°
- any non-combustible continuous support/reinforced calcium silicate board of (11 ± 2) mm of thickness and (870 ± 50) kg / m³ of density as established in the EN 13238¹

Any other roof systems for which classification documents for $B_{\text{ROOF}}\ (t_1)$ according EN 13501-5 are available.

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 2.5 mm by processing appropriate minimum quantities of material
- inspections during installation and of the finished product and documentation of the results

EN 13238:2010

Reaction to fire tests for building products – Conditioning procedures and general rules for selection of substrates

"ISOFLEX-PU 500", "ISOFLEX-PU 500A" or "ISOFLEX-PU 510" ISOMAT S.A.

Reaction to external fire & specifications

Annex B

1