



Approval body for construction products and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and Laender Governments



European Technical Assessment

ETA-22/0097 of 23 February 2022

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

TS PU-Elastic

Liquid applied roof waterproofing on the basis of polyurethane

Grouttech Bouwchemische Producten Industrieweg 51 8071 CS NUNSPEET NIEDERLANDE

Produktionsanlage GT 053

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

EAD 030350-00-0402



Page 2 of 7 | 23 February 2022

English translation prepared by DIBt

The European Technical Assessment is issued by the Technical Assessment Body in its official language. Translations of this European Technical Assessment in other languages shall fully correspond to the original issued document and shall be identified as such.

Communication of this European Technical Assessment, including transmission by electronic means, shall be in full. However, partial reproduction may only be made with the written consent of the issuing Technical Assessment Body. Any partial reproduction shall be identified as such.

This European Technical Assessment may be withdrawn by the issuing Technical Assessment Body, in particular pursuant to information by the Commission in accordance with Article 25(3) of Regulation (EU) No 305/2011.



Page 3 of 7 | 23 February 2022

English translation prepared by DIBt

Specific part

1 Technical description of the product

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

- primer "TS BaseCoat WE"
- surface filler "TS BaseCoat WE" with "TS Filler"
- liquid applied roof waterproofing on the basis of a polyurethane "TS PU-Elastic"
- UV protection coat "TS PU-Finish" (if required)

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 roof waterproofing applied is 1.9 mm.

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

The liquid applied roof waterproofing "TS PU-Elastic" 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 "TS PU-Elastic" 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 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.

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.



Page 4 of 7 | 23 February 2022

English translation prepared by 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)}			
ubstance/s classified as EU-cat. Muta. 1A dangerous substances. b)			
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

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.

b) Assessment based on the detailed manufacturer's statements





Page 5 of 7 | 23 February 2022

English translation prepared by DIBt

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 23 February 2022 by Deutsches Institut für Bautechnik

Bettina Hemme beglaubigt:
Head of Section Gnamou

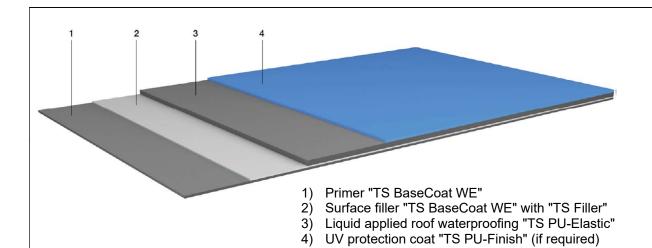
Slipperiness

Page 6 of European Technical Assessment ETA-22/0097 of 23 February 2022

English translation prepared by DIBt



no performance assessed



Description of the	e product			
Minimum layer thickness			1.9 mm	
minimum quantity consumed:			1.8 kg/m² component A,	
, ,			0.2 kg/m² component B	
Roof slope			S1 to S4 (each slope)	
Performance of the	Performance of the product:		Description / Class / Level	
External fire perfor	mance	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		/ater vapour diffusion	µ ≈ 1700	
resistance factor)	resistance factor)			
Watertightness			watertight	
Resistance to wind	loads		≥ 50 kPa	
Resistance to med	Resistance to mechanical damage (perforation) (non-		P1 to P4	
compressible subs	compressible substrates)		(from low to high)	
Resistance to fatigue movement		ent	W3	
Resistance to the effects of		low surface temperature	TL4 (-30 °C)	
		high surface temperature	TH4 (90 °C)	
Working life according to the resistance to ageing media		resistance to ageing media	W3 (25 years)	
(heat and water)				
Resistance to UV i	Resistance to UV radiation in the presence of moisture		M and S (moderate and severe climatic)	
(climatic zones)				
Resistance to plan	t roots		no performance assessed	
Effects of	at 8 °C	Maximum tensile strength	213 N	
variations in kit		Elongation	511 %	
components and		Dynamic indentation	P4	
site practices	at 40 °C	Maximum tensile strength	215 N	
		Elongation	516 %	
		Dynamic indentation	P4	
Effects of day joints			1330 kPa	

TS PU-Elastic Grouttech Bouwchemische Producten	
System built-up, categorisation of use and classifications	Annex A

English translation prepared by DIBt



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

TS PU-Elastic Grouttech Bouwchemische Producten	
Intended use, specifications	Annex B

Z11373.22 8.04.02-9/22

Electronic copy of the ETA by DIBt: ETA-22/0097