Deutsches Institut für Bautechnik

Public-law institution jointly founded by the federal states and the Federation

European Technical Assessment Body for construction products

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European Technical Assessment ETA-22/0473 of 19 June 2024

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	Bernerseal LS Leveling Sealant / Bernerseal LS Vertical Sealant
Product family to which the construction product belongs	Liquid applied roof waterproofing on the basis of polyurethane
Manufacturer	Berner Omnichannel Trading Holding SE Bernerstraße 6 74653 Künzelsau DEUTSCHLAND
Manufacturing plant	Manufacturing plant 74653
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	ETA-22/0473 issued on 20 September 2022

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Specific part

1 Technical description of the product

The liquid applied roof waterproofing "Bernerseal LS Leveling Sealant" / "Bernerseal LS Vertical Sealant" is a kit, which consists of the following components:

- Primer (if required).
- Liquid applied roof waterproofing on the basis of a one-component reactive polyurethane.
- Polyester fleece "Bernerseal LS Fleece 110" 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 documents[1]. 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. Depending on the respective categorization the minimum layer thickness of the roof waterproofing applied is 1.6 mm or 2.9 mm (see Annex A).

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

The liquid applied roof waterproofing "Bernerseal LS Leveling Sealant" / "Bernerseal LS Vertical Sealant" 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 "Bernerseal LS Leveling Sealant" / "Bernerseal LS Vertical Sealant" are given in Annex A.

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

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

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

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

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 10, as well as, 25 years (see Annex A). 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 Safety in case of fire (BWR 2)

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

3.2 Hygiene, health and the environment (BWR 3)

Essential characteristic	Performance
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)]	The kit does not contain these dangerous substances.[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)]	
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, levels of use categories
Resistance to the effects of low and high surface temperature	See Annex A, levels of use categories
Resistance to ageing media (heat and water)	See Annex A, levels of use categories
Resistance to UV radiation in the presence of moisture (climatic zone)	See Annex A
Resistance to plant roots	See Annex A
Effects of variations in kit components and site practices	See Annex A, levels of use categories
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 Safety and accessibility in use (BWR 4)

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 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 EAD No. 030350-00-0402, the applicable European legal act is: 98/599/EC as amended by Commission Decision 2001/596/EC.

The system to be applied is: 3

In addition, with regard to external fire performance of roofs and reaction to fire for products covered by this EAD the system to be applied is: 3

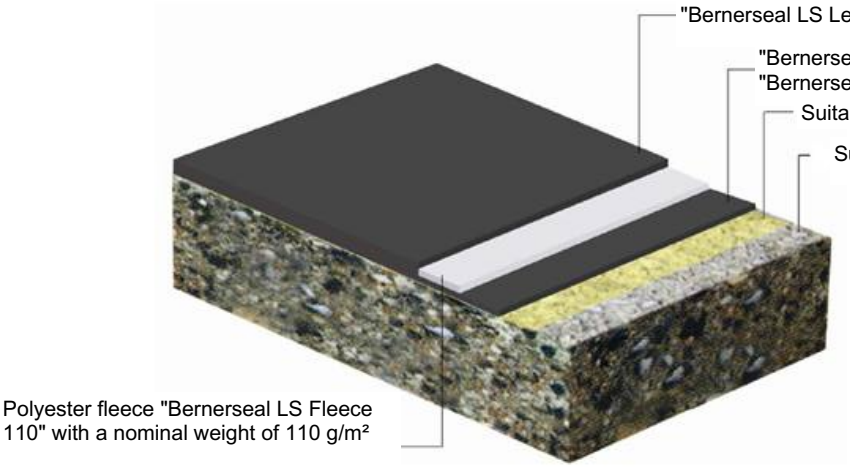
5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD

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 19 June 2024 by Deutsches Institut für Bautechnik

Jürgen Banzer
Head of Section (acting)

beglaubigt:
Hannoun



Description of the product				
Minimum layer thickness			1.6 mm	2.9 mm
Minimum quantity consumed:			2.4 kg/m²	4.1 kg/m²
Roof slope			S1 to S4 (each slope)	
Essential characteristics			**Performance**	
External fire performance of roofs	EN 13501-5		Class F_{ROOF}	
Reaction to fire	EN 13501-1		Class E	
Content, emission and/or release of dangerous substances			See section 3.2	
Water vapour diffusion resistance factor μ			μ ≈ 1830	
Watertightness			Watertight	
Resistance to wind loads			≥ 50 kPa	
Resistance to mechanical damage (perforation) (compressible and hard substrates)			P1 to P3 (from low to normal)	P1 to P4 (from low to high)
Resistance to fatigue movement			W2	W3
Resistance to the effects of		low surface temperature	TL3 (-20 °C)	TL4 (-30 °C)
		high surface temperature	TH4 (+90 °C)	
Working life according to the resistance to ageing media (heat and water)			W2 (10 years)	W3 (25 years)
UV resistance in 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 +5 °C	Maximum tensile strength	9.7 MPa	
		Elongation	27.7 %	
		Dynamic indentation	P3	P4
	at +30 °C	Maximum tensile strength	10.4 MPa	
		Elongation	29.9 %	
		Dynamic indentation	P3	P4
Effects of day joints			≥ 300 kPa	
Resistance to slipperiness			No performance assessed	

Bernerseal LS Leveling Sealant / Bernerseal LS Vertical Sealant
Berner Omnichannel Trading Holding SE

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

Annex A

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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 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 cured waterproofing of at least 1.6 mm, respectively, 2.9 mm by processing appropriate minimum quantities of material;
- inspections during installation and of the finished product and documentation of the results.

Bernerseal LS Leveling Sealant / Bernerseal LS Vertical Sealant Berner Omnichannel Trading Holding SE	Annex B
Intended use specifications for the installation	