

Approval body for construction products
and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and
Laender Governments



European Technical Assessment

ETA-04/0113
of 28 August 2017

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

Dachabdichtung "BÖCOPUR 1K"

Product family
to which the construction product belongs

Liquid applied roof waterproofing on the basis of
polyurethane

Manufacturer

GEORG BÖRNER
Chemisches Werk für Dach- und
Bautenschutz GmbH & Co. KG
Heinrich-Börner-Straße 31
36251 Bad Hersfeld

Manufacturing plant

GEORG BÖRNER
Chemischeswerk für Dach- und
Bautenschutz GmbH & Co. KG
Produktionsanlage 4

This European Technical Assessment
contains

6 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

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.

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This European Technical Assessment may be withdrawn by the issuing Technical Assessment Body, in particular pursuant to information by the Commission in accordance with Article 25(3) of Regulation (EU) No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

Specific part

1 Technical description of the product

The liquid applied roof waterproofing "BÖCOPUR 1K" is a kit, which consists of the components:

- Primer, depending on the type of substrate
- liquid applied roof waterproofing on the basis of a moisture reactive polyurethane prepolymer
- 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 documents. 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 2.1 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 "BÖCOPUR 1K" are given in Annex A.

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

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 file 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 product 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 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.

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 A
Reaction to fire	See Annex A

English translation prepared by DIBt

3.2 Hygiene, health and the environment (BWR 3)

Essential characteristic	Performance
Water vapour permeability	See Annex A
Watertightness	See Annex A
Release of dangerous substances	npa
Resistance to mechanical damage (perforation)	See Annex A, Levels of use categories
Resistance to plant roofs	See Annex A

3.3 Safety and accessibility in use (BWR 4)

Essential characteristic	Performance
Resistance to wind loads	See Annex A
Slipperiness	See Annex A

3.4 General aspects

The verification of durability and serviceability is part of testing the essential characteristics. Durability and serviceability is 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

According to Decision of the Commission of 12 October 1998 (98/599/EC) (OJ L 287 of 24.10.98, p. 30), as amended by Decision of the Commission of 8 January 2001 (2001/596/EC) (OJ L 209 of 02.08.2001, p. 33), the system of assessment and verification of constancy of performance (see Annex V and Article 65 Paragraph 2 to Regulation (EU) No 305/2011) given in the following table applies.

Product	Intended use(s)	Level or class	System
Liquid applied roof waterproofing kits	For uses subject to external fire performance regulations	B _{ROOF} (t1)	3
	For uses subject to reaction to fire	E	3
	All other roof waterproofing uses (all other characteristics)	—	3

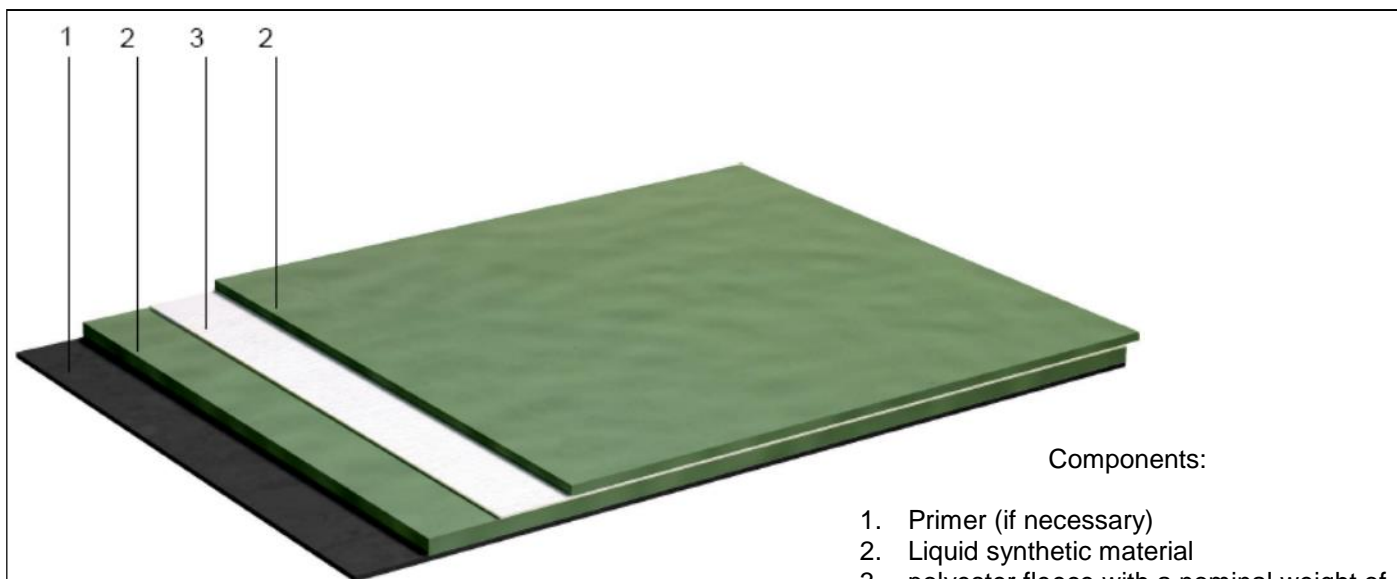
5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD

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 28 August 2017 by Deutsches Institut für Bautechnik

Dr.-Ing. Lars Eckfeldt
p. p. Head of Department

beglaubigt:
Gnamou



Components:

1. Primer (if necessary)
2. Liquid synthetic material
3. polyester fleece with a nominal weight of 110 g/m²

Applicable to the roof waterproofing "**BÖCOPUR 1K**"

Minimum layer thickness	2.1 mm	
minimum quantity consumed:	3.1 kg/m ²	
<u>Levels of use categories according to ETAG 005 with relation to:</u>		
Working life:	W3 (25 years)	
Climatic zones	M and S (moderate and severe climatic)	
Resistance to mechanical damage (perforation)	P1 to P4 (from low to high)	
Compressible substrates and non-compressible substrates		
Roof slope	S1 to S4 (each roof pitch)	
Lowest surface temperature	TL4 (-30 °C)	
Highest surface temperature	TH4 (90 °C)	
Use category related to BWR 3:	S/W 2	
<u>Performance of the product:</u>		
External fire performance	EN 13501-5	B _{Roof} (t ₁)*
Reaction to fire	EN 13501-1	E
Water vapour diffusion resistance factor μ		μ ≈ 1460
Watertightness		pass
Statement on dangerous substances		see section 3.3
Resistance to plant roots		resistant
Resistance to wind loads		≥ 50 kPa
Resistance to slipperiness		no performance assessed

*Class **B_{ROOF} (t₁)**

The classification is valid for the following supporting decks:

- all roof pitches > 0°
- any wooden continuous deck with a minimum thickness of 16 mm and gaps not exceeding 5 mm
- Any other roof systems for which classification documents for B_{ROOF} (t₁) according to EN 13501-5 are available.

Dachabdichtung "BÖCOPUR 1K"
GEORG BÖRNER Chemisches Werk für Dach- und Bautenschutz GmbH & Co. KG

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

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 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,
- ensuring a thickness of the cured waterproofing of at least 2.1 mm by processing appropriate minimum quantities of material,
- inspections during installation and of the finished product and documentation of the results.

Dachabdichtung "BÖCOPUR 1K" GEORG BÖRNER Chemisches Werk für Dach- und Bautenschutz GmbH & Co. KG	Annex B
Intended use Specifications	