

Approval body for construction products
and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and
Laender Governments



European Technical Assessment

ETA-07/0310
of 29 September 2017

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General Part

Technical Assessment Body issuing the
European Technical Assessment:

Deutsches Institut für Bautechnik

Trade name of the construction product

HydroStopEU Basis System

Product family
to which the construction product belongs

Liquid applied roof waterproofing on the basis of water
dispersible polymers

Manufacturer

Quest Construction Product UK Ltd.
Units 1 & 2
Eldon Way
BIGGLESWADE, BEDFORDSHIRE SG 18 8NH
GROSSBRITANNIEN

Manufacturing plant

Quest Construction Product UK Ltd.
Units 1 & 2
Eldon Way
BIGGLESWADE, BEDFORDSHIRE SG 18 8NH
GROSSBRITANNIEN

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

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.

This version replaces

ETA-07/0310 issued on 6 January 2014

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Specific part

1 Technical description of the product

The liquid applied roof waterproofing "HydroStopEU Basis System" is a kit, which consists of the components:

- Primer "HydroStopEU Bond Primer", depending on the type of substrate
- liquid applied roof waterproofing "HydroStopEU Basis" on the basis of a water dispersible acrylic solution
- polyester fleece as reinforcement
- top coat "HydroStopEU TOP"

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 minimum layer thickness of the roof waterproofing applied is 2.0 mm.

As an assembled system these components form a homogeneous seamless roof waterproofing. The components and the system build-up of the roof waterproofing "HydroStopEU Basis System" are given in Annex A1.

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.

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 A1.

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 B1 and the installation instructions of the manufacturer stated in the technical file.

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 A1 |
| Reaction to fire | See Annex A1 |

¹ The manufacturer's technical documents comprises 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 Deutsches Institut für Bautechnik.

3.2 Hygiene, health and the environment (BWR 3)

| Essential characteristic | Performance |
|---|---|
| Water vapour permeability | See Annex A1 |
| Watertightness | See Annex A1 |
| Release of dangerous substances | The product does not contain dangerous substances specified in TR 034, except: – a biocide according to Commission Directive 98/8/EC and the BPR – (EU) No. 528/2012 of the European Parliament and of the Council |
| Resistance to mechanical damage (perforation) | See Annex A1, Levels of use categories |
| Resistance to plant roofs | See Annex A1 |

3.3 Safety and accessibility in use (BWR 4)

| Essential characteristic | Performance |
|--------------------------|--------------|
| Resistance to wind loads | See Annex A1 |
| Slipperiness | See Annex A1 |

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 B1 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 |

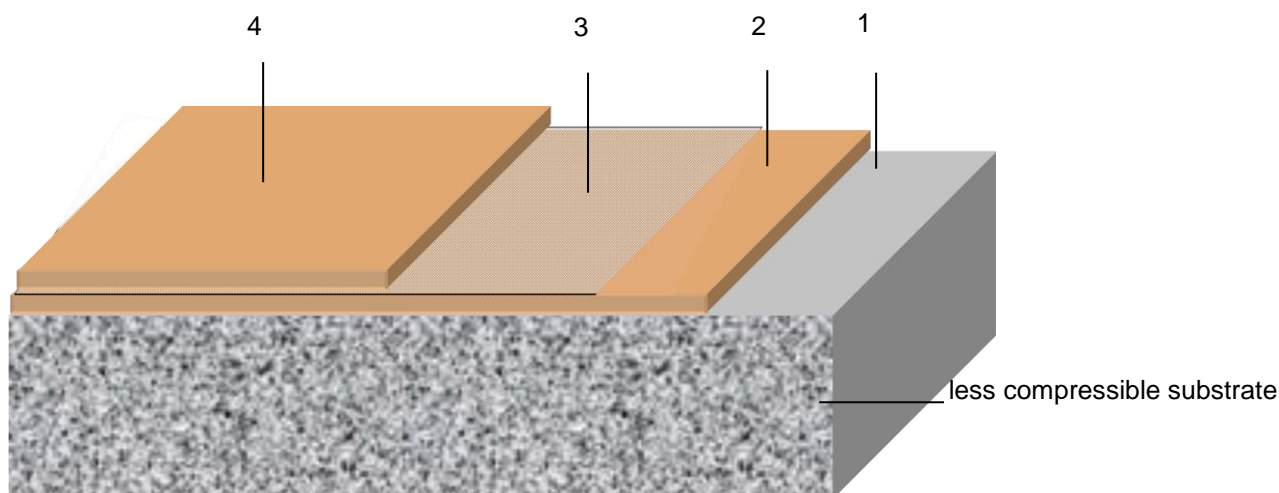
5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD

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 29 September 2017 by Deutsches Institut für Bautechnik

BD Dipl.-Ing. Andreas Kummerow
Head of Department

beglaubigt:
Gnamou



Components:

- 1 Primer (if necessary)
- 2 Waterproofing: liquid synthetic material "HydroStopEU Basis"
- 3 Polyester fleece with a nominal weight of 140 g/m²
- 4 Top coat: liquid synthetic material "HydroStopEU TOP"

Applicable to the roof waterproofing "**HydroStopEU Basis System**"

| | | |
|-------------------------|--------|---|
| Minimum layer thickness | 2.0 mm | (minimum quantity consumed: HydroStopEU Basis: 1.7 l/m ² HydroStopEU TOP: 0.7 l/m ²) |
|-------------------------|--------|---|

Levels of use categories according to ETAG 005 with relation to:

| | |
|--|---|
| Working life: | W3 (25 years) |
| Climatic zones: | M and S (moderate and severe climatic) |
| Resistance to mechanical damage (perforation): | P1 to P3 (from low to normal only for less compressible substrate, e.g. concrete/steel) |
| Roof slope: | S1 to S4 (from <5° to >30°) |
| Lowest surface temperature: | TL3 (-20 °C) |
| Highest surface temperature: | TH4 (90 °C) |

Performance of the product:

| | | |
|--|------------|--|
| External fire performance | EN 13501-5 | class B _{ROOF} (t ₁)* |
| Reaction to fire | EN 13501-1 | class E |
| Water vapour diffusion resistance factor μ | | ≈ 6800 |
| Watertightness | | pass |
| Statement on dangerous substances | | see section 3.2 |
| Resistance to plant roofs | | no performance assessed |
| 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:

- roof pitches ≤ 20°
- any non-combustible continuous deck with a minimum thickness of 10 mm

Any other roof systems for which classification documents for B_{ROOF} (t₁) according EN 13501-5 are available.

HydroStopEU Basis System
Quest Construction Product UK Ltd.

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

Annex A1

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

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| | |
|---|----------|
| HydroStopEU Basis System Quest Construction Product UK Ltd. | Annex B1 |
| Intended use Specifications | |