

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 6 January 2014

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

KVT Dichtungssysteme GmbH
Rugenbergener Straße 2a
25474 Ellerbek
DEUTSCHLAND

Manufacturing plant

KVT Dichtungssysteme GmbH
Riesaer Straße 198
04319 Leipzig
DEUTSCHLAND

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

Guideline for European technical approval of Liquid
applied roof waterproofing kits, ETAG 005 - Part 1: -
General and Part 6: Specific stipulations for kits based on
polyurethane, Edition March 2000, Revision 2004, used as
European Assessment Document (EAD) according to
Article 66 Paragraph 3 of Regulation (EU) No 305/2011

This version replaces

ETA-07/0310 issued on 4 June 2013

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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.

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 DIBt.

3 Performance of the product and references to the methods used for its assessment

3.1 Mechanical resistance and stability (BWR 1)

Not applicable

3.2 Safety in case of fire (BWR 2)

Essential characteristic	Performance
External fire performance	See Annex A1
Reaction to fire	See Annex A1

3.3 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

3.4 Safety and accessibility in use (BWR 4)

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

3.5 Protection against noise (BWR 5)

Not applicable

3.6 Energy economy and heat retention (BWR 6)

Not applicable

3.7 Sustainable use of natural resources (BWR 7)

For the sustainable use of natural resources no performance was investigated for this product.

3.8 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

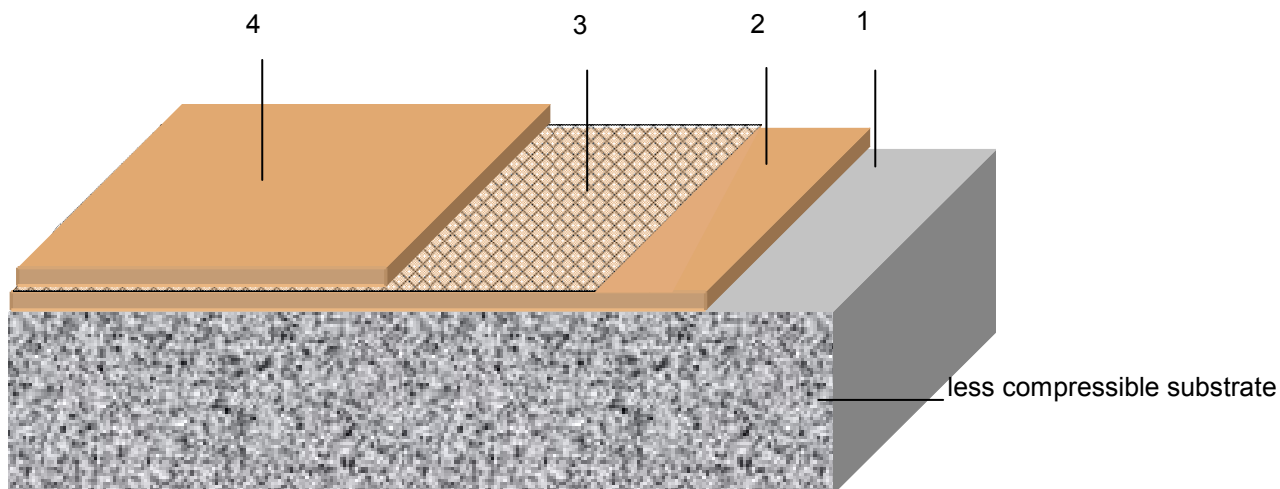
5 Technical details necessary for the implementation of the AVCP system, as provided for the applicable EAD

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

Issued in Berlin on 6 January 2014 by Deutsches Institut für Bautechnik

Gerhard Breitschaft
President

beglaubigt:
Hemme



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/m²
HydroStopEU TOP: 0.7 l/m²)

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) (S1 to S4 (from <5° to >30°))
Roof slope: TL3 (-20 °C)
Lowest surface temperature: TH4 (90 °C)
Highest surface temperature:

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 3.3
Resistance to plant roofs		no performance determined
Resistance to wind loads		≥ 50 kPa
Resistance to slipperiness		no performance determined

*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 to EN 13501-5 are available.

HydroStopEU Basis System
KVT Dichtungssysteme GmbH

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.

Electronic copy of the ETA by DIBt: ETA-07/0310

HydroStopEU Basis System KVT Dichtungssysteme GmbH	Annex B1
Intended use Specifications	