

Approval body for construction products  
and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and  
Laender Governments



## European Technical Assessment

**ETA-05/0210**  
**of 26 October 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

Roof waterproofing "WIDOPAN-FD" / "WIDOPAN-Plus"

Product family  
to which the construction product belongs

Liquid applied roof waterproofing on the basis of flexible  
unsaturated polyester

Manufacturer

WIDOPAN Produkte GmbH  
Finkenhörne 4a  
21781 Cadenberge  
DEUTSCHLAND

Manufacturing plant

WIDOPAN Produkte GmbH  
Westermoor 1  
21789 Wingst

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 4: "Specific stipulations for kits based on  
flexible unsaturated polyester",  
used as EAD according to Article 66 Paragraph 3 of  
Regulation (EU) No 305/2011.

This version replaces

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## Specific part

### 1 Technical description of the product

The liquid applied roof waterproofing "WIDOPAN-FD" /"WIDOPAN-Plus" is a kit, which consists of the components:

- primer "WIDOPAN-Haftgrund", depending on the type of substrate
- liquid applied roof waterproofing "WIDOPAN-FD" on the basis of a unsaturated polyester
- polyester fleece layer

"WIDOPAN-Plus" is the thixotropic variant of "WIDOPAN-FD".

For an adequate adhesion of the waterproofing layer – depending on the type of substrate – a primer is needed. In general the primer belonging to the substrate is given in the manufacturer technical documents<sup>1</sup>. 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 2.3 mm.

As an assembled system these components form a homogeneous seamless roof waterproofing. Annex A shows the system build-up of the roof waterproofing "WIDOPAN-FD" / "WIDOPAN-Plus".

### 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 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.

<sup>1</sup> 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 Safety in case of fire (BWR 2)

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

#### 3.2 Hygiene, health and the environment (BWR 3)

Essential characteristic	Performance
Water vapour permeability	See Annex A
Watertightness	See Annex A
Content, emission and/or release of dangerous substances	No performance assessed
Resistance to mechanical damage (perforation)	See Annex A
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 <sub>ROOF</sub> (t1)	3
	For uses subject to reaction to fire	E	3
	All other roof waterproofing uses (all other characteristics)	—	3

English translation prepared by DIBt

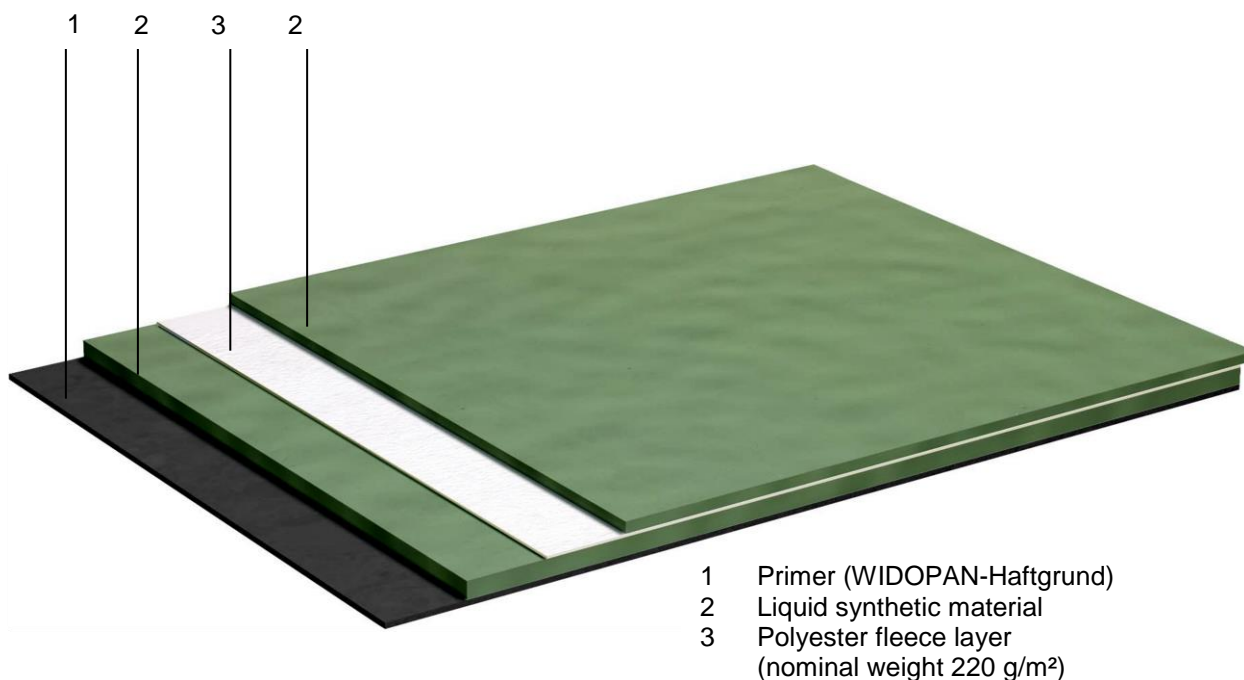
**5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD**

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 26 Oktober 2017 by Deutsches Institut für Bautechnik

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

*beglaubigt:*  
Gnamou



- 1 Primer (WIDOPAN-Haftgrund)
- 2 Liquid synthetic material
- 3 Polyester fleece layer  
(nominal weight 220 g/m<sup>2</sup>)

Applicable to the roof waterproofing "WIDOPAN-FD" / "WIDOPAN-Plus":

Minimum layer thickness	2.3 mm	
minimum quantity consumed:	2.2 kg/m <sup>2</sup>	
<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) (compressible and non-compressible substrates)	P1 to P4 (each load)	
Roof slope	S1 to S4 (each slope)	
Lowest surface temperature	TL3 (-20 °C)	
Highest surface temperature	TH3 (80 °C)	
<u>Performance of the product:</u>		
External fire performance	EN 13501-5	F <sub>Roof</sub>
Reaction to fire	EN 13501-1	E
Water vapour diffusion resistance factor $\mu$	$\mu \approx 4725$	
Watertightness	will be supplemented	
Resistance to plant roots	no performance determined	
Resistance to wind loads	$\geq 50$ kPa for tear resistant substrates	
Resistance to slipperiness	no performance determined	

### 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, such as the thixotropic variation " WIDOPAN-FD" / "WIDOPAN-Plus " for details as up stands, corners, connections etc.,
- 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 2,3 mm by processing appropriate minimum quantities of material,
- inspections during installation and of the finished product and documentation of the results.

Roof waterproofing "WIDOPAN-FD" / "WIDOPAN-Plus" WIDOPAN Produkte GmbH	Annex B
<b>Intended use</b> Specifications	