



Approval body for construction products and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and Laender Governments



European Technical Assessment

ETA-19/0134 of 6 March 2019

English translation prepared by DIBt - Original version in German language

General Part

Technical Assessment Body issuing the European Technical Assessment:

Trade name of the construction product

Product family to which the construction product belongs

Manufacturer

Manufacturing plant

This European Technical Assessment contains

This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of

Deutsches Institut für Bautechnik

VEDASEAL PMMA / VEDASEAL PMMA Detail

Liquid applied roof waterproofing on the basis of polymethylmethacrylate

VEDAG GmbH Geisfelderstrasse 85-91 96050 Bamberg DEUTSCHLAND

Produktionsanlage 6050

6 pages including 2 annexes which form an integral part of this assessment

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.



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Specific part

1 Technical description of the product

The liquid applied roof waterproofing "VEDASEAL PMMA / VEDASEAL PMMA Detail" is a kit, which consists of the components:

- Primer "VEDASEAL PMMA Primer", depending on the type of substrate
- · liquid applied roof waterproofing on the basis of a polymethylmethacrylate
- polyester fleece layer "VEDASEAL PMMA Vlies"

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's 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 1.8 mm.

As an assembled system these components form a homogeneous seamless roof waterproofing. The components and the system build-up of the roof waterproofing "VEDASEAL PMMA / VEDASEAL PMMA Detail" are given in Annex A.

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

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 liquid applied roof waterproofing 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 performance 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

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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.



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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	The chemical composition of the product has to be in compliance with the composition deposited at the Technical Assessment Body (DIBt). The product does not contain dangerous substances according to TR 034 (version September 2015)
Resistance to mechanical damage (perforation)	See Annex A, Levels of use categories
Resistance to plant roots	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 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.

Assessment and verification of constancy of performance (AVCP) system applied, with reference to its legal base

In accordance with ETAG 005 used as EAD, the applicable European legal act is: 98/599/EC

The system to be applied is: 3

In addition, with regard to reaction to fire for products covered by this ETAG the applicable European legal act is: 2001/596/EC

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.

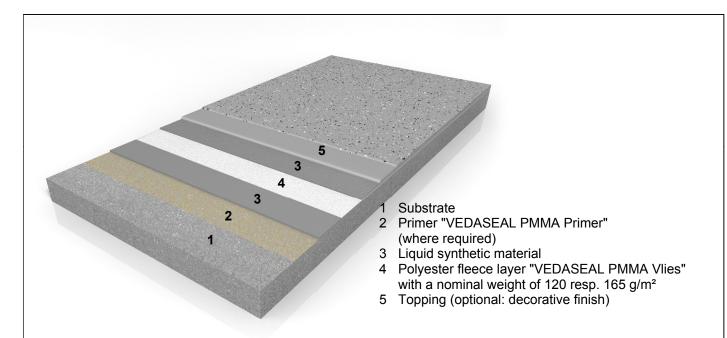
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Applicable to the roof waterproofing "VEDASEAL PMMA / VEDASEAL PMMA Detail"

Minimum layer thickness	1.8 mm			
Minimum quantity consumed:	2.5 kg/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 P4			
(compressible and non-compressible substrates)	(from low to high)			
Roof slope	S1 to S4 (each slope)			
Lowest surface temperature	TL4 (-30 °C)			
Highest surface temperature	TH4 (90 °C)			
Use category related to BWR 3:	S/W 2			
Performance of the product:				
External fire performance EN 13501-5	B _{ROOF} (t1)*			
Reaction to fire EN 13501-1	class E			
Water vapour diffusion resistance factor µ	µ ≈ 6600			
Watertightness	pass			
Statement on dangerous substances	see section 3.2			
Resistance to plant roots	root resistant for a minimum layer			
	thickness 2.0 mm			
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 5 mm

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

VEDASEAL PMMA / VEDASEAL PMMA Detail VEDAG GmbH	
System built-up and classifications	Annex A

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Installation

The levels of use categories and the performance of the roof waterproofing can be assumed only, if the installation is carried out according to the installation instructions stated in the technical documents 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 the mix ratio depending on the ambient temperature
- ensuring a thickness of the cured waterproofing of at least 1.8 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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Intended use Specifications	Annex B

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